Requirements and courses in this catalog are effective with the Fall 2018 semester.
Welcome to Palomar College!

Whether you plan to earn a degree or certificate, transfer to a four-year institution, or take classes for professional development, we are here to help you to achieve your goal. At Palomar, you will have access to outstanding, diverse academic programs, and support services to assist you along your educational journey.

Our faculty and staff are committed to student success and strive to provide students with a rewarding educational experience. Courses are conveniently offered at the San Marcos campus, the Escondido Education Center, the South Education Center in Rancho Bernardo, the North Education Center in Fallbrook, Camp Pendleton and three additional sites throughout North San Diego County.

This catalog is designed to assist you with your educational goals and includes important information on academic policies, course offerings, and support services. You will also learn what is expected of you as a Palomar student. We encourage you to familiarize yourself with this publication and to reference it throughout the year.

On behalf of the faculty, staff and administration, I am pleased to welcome you to the Palomar College family. I wish you success in pursuing your educational goals.

Joi Lin Blake, Ed.D.
Superintendent/President
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Section 1
General Information

Palomar College Center Location

Committed to serving the entire district, the college literally takes learning to its communities via the Escondido Education Center and four strategically located sites. At the Center and many of the sites, students may take credit courses leading to an associate degree or certificate, or they may complete transfer requirements for further study at a four-year institution. Many students also enroll in vocational programs, noncredit courses or seminars to upgrade career skills or to continue their lifelong journey of learning.

Escondido Education Center
760-744-1150, ext. 8134
1951 East Valley Parkway
Escondido, CA 92027

Palomar College Escondido Education Center Admissions Office is open Monday through Thursday, 7:30 a.m. to 6:00 p.m., and Friday, 7:30 a.m. to 2:00 p.m. Parking permits are required at the Escondido Education Center.

Course Offerings: General education classes required for an associate degree and/or transfer, and noncredit classes. Vocational programs include Emergency Medical Education. ESL credit and non-credit classes are offered.

Support Services: Admission and enrollment services, financial aid, cashier services, counseling and assessment, health services, food services, campus police, bookstore, and library with internet access. The Center also offers tutoring, a language lab, and a Teaching and Learning Center.

Fallbrook Education Center
760-744-1150, ext. 8464
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

Palomar College Fallbrook Education Center Admissions Office is open Monday through Thursday, 7:00 a.m. to 6:00 p.m., and Friday, 7:00 a.m. to 2:00 p.m. Parking at the Fallbrook Education Center is free during the first year of our opening (2018/2019 academic school year), however, all students will need a parking permit at the center.

Course Offerings: General education classes required for an associate degree and/or transfer, and noncredit classes. Programs are available in Administration of Justice: Law Enforcement, Administration of Justice: Homeland Security, Fire Technology: General, Business Management, General Business, General Studies, and EMT Basic.

Support Services: Admissions and Enrollment Services, Financial Aid, Veterans Services, Counseling, Assessment, Math Tutoring, Library, Cashier Services, and a computer lab. For more information, visit www.palomar.edu/camppendleton.

Rancho Bernardo Education Center
760-744-1150, ext. 8664
11111 Rancho Bernardo Road
San Diego, CA 92127

Palomar College Rancho Bernardo Education Center Admissions Office is open Monday through Thursday, 7:00 a.m. to 6:00 p.m., and Friday, 7:00 a.m. to 2:00 p.m. Parking at the Rancho Bernardo Education Center is free during the first year of our opening (2018/2019 academic school year), however, all students will need a parking permit at the center.

Course Offerings: General education classes required for an associate degree and/or transfer. Academic programs include: Associate Degrees for Transfer in Biology, Mathematics, and Communications Studies. Certificate in Alcohol & Other Drug Studies.

Support Services: Admissions and enrollment services, financial aid, counseling, assessment, cashier services, student affairs, health services, food services, bookstore, Palomar College Police, and a library with internet access. The Center also offers tutoring, and a Teaching & Learning Center.

Palomar College Site Locations

Camp Pendleton
760-744-1150, ext. 7818
Location: Building 1331
Camp Pendleton, CA 92055

Palomar College at Camp Pendleton is open Monday through Thursday, 8:30 a.m. to 6:00 p.m. and Friday, 8:00 a.m. to 2:00 p.m. Classes are offered in various areas of the base. A base pass is required for non-military students. Please call for additional information.

Course Offerings: General education classes required for an associate degree and/or transfer, and noncredit classes. Programs are available in Administration of Justice: Law Enforcement, Administration of Justice: Homeland Security, Fire Technology: General, Business Management, General Business, General Studies, and EMT Basic.

Support Services: Admissions and Enrollment Services, Financial Aid, Veterans Services, Counseling, Assessment, Math Tutoring, Library, Cashier Services, and a computer lab. For more information, visit www.palomar.edu/camppendleton.
**Fallbrook**  
760-744-1150, ext. 7805  
Location: Fallbrook High School  
2400 S. Stage Coach Lane  
Fallbrook, CA 92028  

Palomar College at Fallbrook is open Monday through Thursday, 5:30 p.m. to 8:30 p.m. There is no smoking on campus.  

**Course Offerings:** General education classes required for an associate degree and/or transfer, and non-credit classes. ESL non-credit classes are offered.  

**Support Services:** Admission and enrollment services, and bookstore.

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**Mt. Carmel**  
760-744-1150, ext. 3890  
Location: Mt. Carmel High School  
PAC-I portable building, main parking lot  
9550 Carmel Mountain Road  
San Diego, CA 92129  

Palomar College at Mt. Carmel is open Monday through Thursday, 2:00 p.m. to 9:30 p.m. There is no smoking on campus.  

**Course Offerings:** General education classes required for an associate degree and/or transfer.  

**Support Services:** Admission and enrollment services, assessment, and bookstore.

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**Pauma**  
760-744-1150, ext. 7811  
1010 Pauma Reservation Road  
Pauma Valley, CA 92061  

Hours vary; call for specific information.  

**Course Offerings:** General education classes required for an associate degree and/or transfer. The site has a basic skills computer laboratory.  

**Support Services:** Admission and enrollment services, and an on-site library.

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**Palomar College at Ramona**  
760-787-3608  
1010 Ramona Street  
Ramona, CA 92065  

Palomar College at Ramona Community Campus is open Monday through Thursday, 5:00 p.m. to 9:00 p.m. There is no smoking on campus.  

**Course Offerings:** General education classes required for an associate degree and/or transfer.  

**Support Services:** Admission and enrollment services and bookstore.
Palomar College Locations and District Map
College Calendar 2018-2019

Summer Session 2018
4 week (1) classes begin ................................................................. May 29
8 week (1) classes begin ................................................................. May 29
12 week classes begin ................................................................. May 29
Residence determination date ...................................................... June 10
6 week session begin ................................................................. June 11
8 week (2) classes begin ............................................................... June 11
4 week (1) classes end ................................................................. June 22
4 week (2) classes begin ............................................................... June 25
8 week (3) classes begin ............................................................... June 25
Last day to apply for an Associate degree, Certificate of Achievement, or Certificate of Proficiency ................................................ June 30
Independence Day ....................................................................... July 4
8 week (1) classes end ................................................................. July 20
6 week session end ..................................................................... July 20
4 week (2) classes end ................................................................. July 20
4 week (3) classes begin ............................................................... July 23
8 week (2) classes end ................................................................. August 3
8 week (3) classes end ................................................................. August 17
4 week (3) classes end ................................................................. August 17
12 Week classes end ................................................................. August 17

Fall Semester 2018
First day applications accepted .................................................. October 1
Registration begins .................................................................... May 31
Part-Time Faculty Plenary .......................................................... August 16
Faculty Plenary .......................................................................... August 17
Residence determination date .................................................... August 19
Classes begin ............................................................................ August 19
Last day to drop full semester-length classes with no grade placed on permanent record ................................................ September 3
Labor Day .................................................................................. September 3
Last day to apply for an Associate degree, Certificate of Achievement, or Certificate of Proficiency ................................................ September 30
Last day to drop full semester-length classes with 'W' ........................................................................ October 12
Veterans' Day ............................................................................ November 12
Non-instructional days .............................................................. November 19-21
Thanksgiving Holidays ............................................................. November 22-23
Non-instructional day .................................................................. November 24
Fall semester ends .................................................................... December 15
Semester break/Professional development ................................ December 20 - January 1

Winter Intersession 2019
Classes begin ............................................................................. January 2
Classes end ................................................................................ January 25

Spring Semester 2019
First day applications accepted .................................................. September 10
Registration begins .................................................................... October 29
Martin Luther King, Jr. Day ........................................................ January 21
Residence determination date ..................................................... January 27
Classes begin ............................................................................. January 28
Part-time Faculty Plenary ............................................................ January 31
Lincoln’s Day ............................................................................. February 15
Non-instructional Day ............................................................... February 16
Last day to drop full semester-length classes with no grade placed on permanent record ................................................ February 17
Washington’s Day ..................................................................... February 18
Last day to apply for an Associate degree, Certificate of Achievement, or Certificate of Proficiency ................................................ February 28
Last day to drop full semester-length classes with 'W' ........................................................................ March 17
Spring recess ............................................................................. April 1 - 7
Memorial Day ............................................................................. May 27
Evening commencement .......................................................... May 31
Spring semester ends ................................................................ June 1
College Organization

District Governing Board
Nina Deerfield
Mark R. Evilsizer
John J. Halcón, Ph.D.
Nancy Ann Hensch
Paul P. McNamara
ASG President

Superintendent/President
Joi Lin Blake Ed.D.................................Ext. 2105
Superintendent/President
Communications, Marketing and Public Affairs
Laura A. Gropen, Director ......................Ext. 2152
Foundation
Stacy Rungaitis, Executive Director ...............Ext. 2732
Institutional Research and Planning
Michelle A. Barton, Senior Director ..............Ext. 2360

Instructional Services
Assistant Superintendent/Vice President
Jack S. Kahn, Ph.D.................................Ext. 2246

Division of Arts, Media, and Business
Administration
Justin Smiley, Dean ..................................Ext. 2154
Art Department ........................................Ext. 2302
Business Administration Department ...........Ext. 2488
Graphic Communications Department ..........Ext. 2452
Media Studies Department .........................Ext. 2440
Performing Arts Department .......................Ext. 2316

Division of Career, Technical, and Extended Education
Margie A. Fritch, Dean ..............................Ext. 2276
Cooperative Education Department ...............Ext. 2354
Design and Manufacturing Technology Department ....Ext. 2349
Emergency Medical Education .....................Ext. 8150
Occupational and Noncredit Programs .............Ext. 2284
Public Safety Programs .............................Ext. 1722
Trade and Industry Department ....................Ext. 2545
Workforce Development and Extended Studies .....Ext. 2600

Division of Languages and Literature
Shayla D. Sivert, Dean ..............................Ext. 2251
English Department ..................................Ext. 2392
English as a Second Language Department ......Ext. 2261
Reading Services ....................................Ext. 2568
Speech Communication/Forensics/ASL Department ....Ext. 2405
Tutoring Services Program .........................Ext. 2448
World Languages Department .....................Ext. 2390

Division of Mathematics the Natural and Health Sciences
Margie A. Fritch, Acting Dean ......................Ext. 2253
Chemistry Department ................................Ext. 2505
Computer Science and Information
Technology Department ............................Ext. 2387
Dental Assisting Program ............................Ext. 2571
Earth, Space and Environmental Sciences Department ....Ext. 2512
Life Sciences Department ..........................Ext. 2275
Mathematics Department ...........................Ext. 2535
Nursing Education Department ......................Ext. 2580
Physics and Engineering Department ..............Ext. 2505

Division of Social and Behavioral Sciences
Pearl Ly, Ed.D., Dean ...............................Ext. 2759
American Indian Studies Department ..............Ext. 2425
Behavioral Sciences Department .....................Ext. 2329
Child Development Department .....................Ext. 2206
Early Childhood Education Lab School ..............Ext. 2578
Economics, History, and Political Science Department ....Ext. 2412
Health, Kinesiology and Recreation
Management Department ............................Ext. 2459
Library and Information Technology ...............Ext. 2666
Library Department ..................................Ext. 2612
Multicultural Studies Department ..................Ext. 2206

Palomar College Locations
Tom Medel, Interim Director Education Center ...Ext. 8103
Escondido Education Center ..........................Ext. 7821
Fallbrook Education Center ..........................Ext. 7821
Rancho Bernardo Education Center ..................Ext. 7821
Ryan Williams, Supervisor ..........................Ext. 7821
Camp Pendleton Site, Fallbrook Site, Pauma Site
Student Services
Adrian Gonzales .........................................................Ext. 2158
Assistant Superintendent/Vice President

Athletics
Scott T. Cathcart, Director ........................................Ext. 2460

Campus Police
Christopher Moore, Chief of Police ..........................Ext. 2289

Counseling Services
Brian H. Stockert, Dean .............................................Ext. 2184
Articulation Services ..................................................Ext. 2737
Assessment Center ....................................................Ext. 2182
Career Center ..........................................................Ext. 2194
Counseling Center .....................................................Ext. 2680
Disability Resource Center .......................................Ext. 2375
Extended Opportunity Programs and Services ........Ext. 2449
Grant Funded Programs ............................................Ext. 3680
Student Success and Support Program ..................Ext. 2184
Transfer Center ........................................................Ext. 2552

Enrollment Services
Kendyl L. Magnuson, Ed.D., Senior Director ..........Ext. 2171
Admissions and Enrollment .......................................Ext. 2164
Admissions and Enrollment, Escondido ..................Ext. 8134
Evaluations and Graduation .....................................Ext. 2165
Financial Aid and Scholarships ..............................Ext. 2367
International Education .........................................Ext. 2167
Student Records and Transcripts .........................Ext. 2169
Veterans’ Services ..................................................Ext. 2173

Health Services
Judy Harris, Director ..................................................Ext. 2380

Student Affairs
Sherry M. Titus, Director ...........................................Ext. 2595

Finance and Administrative Services
Ron Ballesteros-Perez ...............................................Ext. 2109
Assistant Superintendent/Vice President
Business and Contract Services ..............................Ext. 2122
Cashier Services ......................................................Ext. 2114
Facilities ................................................................Ext. 2629
Fiscal Services ..........................................................Ext. 2215
Information Services ................................................Ext. 2140
Payroll Services ........................................................Ext. 2937

Human Resource Services
Lisa Norman, Ed.D. ....................................................Ext. 2531
Assistant Superintendent/Vice President
Human Resource Services .......................................Ext. 2609
History of the College

Palomar College has a history rich in tradition and educational achievements. On January 15, 1946, registered voters in the Vista Unified School District, the Fallbrook Union School District, and the Escondido Union High School District voted 714 to 417 in favor of establishing a “junior college” in the North San Diego County area. Under state law, the San Diego County Superintendent of Schools appointed five persons as members of the first Governing Board for the new college. The Governing Board hired the first college president in 1946, Dr. Daniel C. McNaughton, who was supported by a director, a dean of students, and nine faculty members. Located on the Vista High School campus, Palomar College opened its classroom doors on September 23, 1946, with exactly 100 students enrolled in classes in science, mathematics, music, art, social sciences, commerce, English, physical education, and foreign languages.

Today, Palomar College is a public, two-year comprehensive community college serving a large student body of diverse ages, ethnicities, and lifestyles. The District’s 200-acre main campus is located at 1140 West Mission Road in San Marcos. The San Marcos campus, Education Center in Escondido, and four additional sites serve a District covering 2,555-square-miles ranging from urban to agricultural areas of North San Diego County.

The four education sites are located in Camp Pendleton, Fallbrook, Mt. Carmel, and Pauma Valley. The Escondido Education Center is located on eight acres owned by the District, and the proposed North Education Center will be located on an 82-acre property in Fallbrook. In June 2010, the District purchased approximately 27 acres of land in Rancho Bernardo that includes a large building and associated parking structure. This property is the future site of a center to serve the southern portion of the District.

Palomar College constitutes a single-college district, and it is the largest single community college district in San Diego County. Palomar College borders seven other community college districts: South Orange County, Mt. San Jacinto, Desert, Imperial Valley, Grossmont-Cuyamaca, San Diego, and MiraCosta.

Palomar College has five academic divisions: (1) Arts, Media, Business, and Computer Science; (2) Career, Technical, and Extended Education; (3) Languages and Literature; (4) Mathematics and the Natural and Health Sciences; and (5) Social and Behavioral Sciences. The College offers more than 250 credit degree and certificate programs within those five divisions and noncredit courses. At Palomar, students have the opportunity to participate in a vibrant college life that includes free art and cinema series, 34 academic and social campus organizations, 22 competitive intercollegiate sports teams for men and women, and dozens of music, theatre, and dance performances.

In the November 2006 General Election, voters approved an educational facilities improvement measure (Proposition M), which provides the majority of the funding for the College’s $1 billion construction and remodel plan. The first major step in the implementation of this plan was realized with the completion of the Natural Sciences Building, which opened for the fall 2007 semester. This is an exciting time for students, faculty, staff, and administration at Palomar College. The vision in the Master Plan 2022 has moved to reality as the planning, design, and construction of several instructional and support facilities take shape. Master Plan 2022 is transitioning Palomar College into its next generation as an outstanding institution of higher education committed to the learning success of its students and responsive to the changing needs of its diverse community.

Vision
Learning for Success

Mission
Our mission is to provide an engaging teaching and learning environment for students of diverse origins, experiences, needs, abilities, and goals. As a comprehensive community college, we support and encourage students who are pursuing transfer-readiness, general education, basic skills, career and technical training, aesthetic and cultural enrichment, and lifelong education. We are committed to helping our students achieve the learning outcomes necessary to contribute as individuals and global citizens living responsibly, effectively, and creatively in an interdependent and ever-changing world.

Values
Palomar College is dedicated to empowering students to succeed and cultivating an appreciation of learning. Through ongoing planning and self-evaluation we strive for continual improvement in our endeavors. In creating the learning and cultural experiences that fulfill our mission and ensure the public’s trust, we are guided by our core values of

- Excellence in teaching, learning, and service
- Integrity as the foundation for all we do
- Access to our programs and services
- Equity and the fair treatment of all in our policies and procedures
- Diversity in learning environments, philosophies, cultures, beliefs, and people
- Inclusiveness of individual and collective viewpoints in collegial decision-making processes
- Mutual respect and trust through transparency, civility, and open communications
- Creativity and innovation in engaging students, faculty, staff, and administrators
- Physical presence and participation in the community
Educational Philosophy
The educational philosophy of Palomar College is based upon belief in the value of the individual and belief in the individual’s potential for intellectual, ethical, personal, and social growth. Only through growth in these areas can a citizen come to understand personal rights.

The fundamental assumption of the democratic way of life is the intrinsic worth of the individual. This assumption thus becomes the main principle of public education.

In order to become an effective member of a democratic society, an individual should participate in a free exchange of ideas. Only within a democracy is the individual assured the freedom for such an exchange and for self-realization consistent with the freedoms and opportunities of others.

By providing equal opportunities for all, the community college helps its students to realize their potential. Thus their talents become more readily available to the community, and their participation in society becomes more effective.

Academic Freedom
The instructional program at Palomar College shall be conducted in accordance with principles of academic freedom of inquiry. The educational program must encourage freedom of expression and freedom of inquiry within the framework of responsibility.

Palomar College considers academic freedom, defined by its attendant rights and responsibilities, as a vital, primary force in the achievement of the aims and objectives of the institution. Academic freedom involves inherently the following rights and responsibilities:

• To research to the limit of competence and training, the assigned teaching area and its references
• To survey, probe, and question the relationship of humans to their environment within the guidelines of research techniques and intelligent discussion
• To question and challenge, without fear of censorship or discipline, those actions originating from within the institution which seriously affect the total academic environment
• To introduce, within the assigned teaching area, controversial concepts, issues, and systems, subjecting these ideas to the test of objective reasoning
• To create an unhindered and clear intellectual atmosphere democratically maintained, encouraged, and supported by students, staff, administration, and members of the Governing Board
• To associate with those individuals or groups of one’s choice without fear of censorship or discipline, unless such association is forbidden by law

At no time will the inherent right of staff to use any of the normal channels of campus communication be abridged, nor will individual staff members be singled out for special prior censorship of their use of such channels of communication. It is understood that staff members exercising this right will accept responsibility for both the substance and the manner of their messages.

The college or university teacher is a citizen, a member of a learned profession, and an officer of an educational institution. When he/she speaks or writes as a citizen, he/she should be free from institutional censorship or discipline, but his/her special position in the community imposes special obligations. As a person of learning and an educational officer, he/she should remember that the public may judge his/her profession and institution by his/her utterances. Therefore, he/she should at all times be accurate, show respect for the opinions of others, and make every effort to indicate that he/she is not an institutional spokesperson.

Palomar College encourages freedom of expression and the free flow and exchange of information and ideas. The College seeks to protect academic freedom and supports free and unfettered scholarly inquiry. In compliance with these requirements, the College encourages faculty, staff, and student involvement with others in support of candidates for offices or in the furtherance of other political activities.

Governing Board and District Policy
In accordance with its designated function as a policy-making body, the Governing Board of the Palomar Community College District creates the policies by which the district operates, subject to the Education Code of the State of California, all rules prescribed by the Board of Governors of the California Community Colleges, and all federal statutes. Board policy may be changed, subject to the Education Code of the State of California, only by action of the Governing Board through a majority vote of its members.

The Governing Board schedules its regular open meetings in the Board Room on campus at 5:00 p.m. on the second Tuesday of the month. Meetings are open to the public.

Palomar College Foundation
The Palomar College Foundation continues its half-century legacy of creating a path to success for Palomar College students. Since its inception, the Foundation has raised much-needed support for crucial programs and services not covered by the state budgeting process. It is the Foundation’s financial help that allows many Palomar students to achieve their academic dreams.

The Foundation inspires philanthropic support from individuals, companies, and foundations. That support helps remove financial barriers and assure equal access to educational opportunity for students throughout North County. The Foundation provides direct student support through a variety of programs, including its Textbook Assistance Program, assistance to military veterans, scholarships, and other forms of financial aid. The Foundation also provides financial support for college and faculty initiatives that improve the student educational experience.

Working together with individuals, businesses and foundations, we are making a real difference in our region.

We are proud of our role in helping thousands of students achieve success in their lives and we are proud of our role in establishing a solid tradition of philanthropic support in the communities we serve.

For more information about the Foundation and how you can be part of creating student success, please contact us at 760-744-1150, ext. 2735.
Commitment to Diversity
The District is committed to employing qualified administrators, faculty, and staff members who are dedicated to student success. The Governing Board recognizes that diversity in the academic environment fosters cultural awareness, promotes mutual understanding and respect, and provides suitable role models for all students. The Governing Board is committed to hiring and staff development processes that support the goals of equal opportunity and diversity and provide equal consideration for all qualified candidates. (BP 7100)

Designation of Responsible Employee as Title IX Coordinator
Assistant Superintendent/Vice President, Human Resource Services, Administrative Services Building, room A-1, 760-744-1150, ext. 2531.
ADMISSIONS AND REGISTRATION
Section 2
Admission and Registration

Admissions Policy
Any person who meets one of the following requirements is eligible to attend Palomar College:
- Has graduated from an accredited high school
- Is a non-high school graduate 18 years of age or older
- Has passed the California High School Proficiency Examination (CHSPE), or Certificate of Equivalency (G.E.D.)
- Is a minor who may profit from instruction and has permission of the local high school district
- Has petitioned for special admission and obtained approval from parent/guardian, representative of the school district of residence and Palomar College Director of Enrollment Services (admitted on a permission and space available basis).

Nondiscrimination Policy
As stated in BP 3410, the Palomar Community College District is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities. In addition, all students have the right to participate fully in the educational process, free from discrimination and harassment.

The District and each individual who represents the District, shall provide equal access to its services, classes, and programs without regard to national origin, religion, age, sex, gender, gender identity, race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because he/she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics.

It is the policy of the College that, unless exempted by statute, every course offered and maintained by the District shall be fully open to enrollment and participation by any person who has been admitted to the College and who meets the stated prerequisites for the course.

The complete Board Policy may be found at http://www.palomar.edu/gb/ under Governing Board, Policies and Procedures.

Application for Admission
Anyone who wishes to attend Palomar College must submit a completed application for admission. Students may apply online at http://www.palomar.edu.

Admission to Special Programs
Admission to the Dental Assisting Program, Nursing Program, Fire Academy, and Police Academy is by special application. For information about their application process, contact the individual program.

Special Admission for Accelerated Students
To be considered for admission, minors must have completed the ninth grade or reached the age of 16, and have permission of the local school district. Home-schooled minors may enroll with permission of the local school district. Minors, under 16 years of age, with permission from a public or private school, and the Palomar College instructor, may enroll only in courses specified by the local school district or private school. Credit earned is college credit and may also be used as high school credit with consent of the high school. See the Admissions Office for details. Minor children enrolled in classes and programs must adhere to the Student Code of Conduct.

Minor Children
It is the expectation of Palomar College that minor children of currently enrolled students will be under the constant supervision of parents or guardians (not with-standing those minor children enrolled in Palomar College classes and programs) and that said parents or guardians are responsible for assuring appropriate behavior of minor children. Parents or guardians will be held responsible when the behavior of minor children constitutes a violation of the Palomar College Code of Conduct and these parents or guardians may be directed to remove the minor children from District facilities (classrooms, libraries, food services, operations, athletic events, public areas, etc.) should violations occur.

Residency
Information in the following paragraphs summarizes the rules and regulations related to student residency for educational purposes. Details are found in Education Code Section 68090, Title 3, Part 41, Chapter 1, and may be found in the College Library.

Residency is determined when a student applies for admission to the College. The Admissions Office will help with questions and interpretation of the regulations.

Definition of Residence
In law, every person has a residence. There can be one and only one residence. A residence cannot be lost until another is gained. It is the place where one lives when not on vacation or leave. It can be changed only by a combination of act and intent.

Every person who is married or is 18 or older and under no legal restriction may establish a residence. Certain minors may also establish residence.

Residency Status
A California “resident,” for tuition purposes, is a person who has resided in the state for more than one year prior to the residence determination date and shows “intent” to the state of California.

A “nonresident” is a person who has not resided in California for the full one-year period before the residence determination date. A nonresident must pay nonresident tuition in addition to other fees for credit classes. Tuition must be paid in full at registration.
Residence Determination Date
The residence determination date is that day immediately preceding the first day of instruction.

Factors Considered to Determine Residency
The following factors are called “indices of intent.” They, along with a person’s presence in California, are considered in determining California residency. No one factor decides residency. All evidence is weighed. If any one of the “indices of intent” shows intent only for another state during the one-year period, it may show lack of intent for California:

• Own residential property in California for personal use
• Are licensed to practice a profession in California
• Vote in California
• Pay California State Income Taxes
• Possess a California driver’s license and a vehicle registered in California
• Have an active checking and/or savings account in a California bank
• Show a California address on military records
• Possess a marriage license or a divorce decree issued in California
• Have been paying nonresident tuition in another state

Exception to Residency Requirements
There are exceptions to the residency rules. They may include the following:

• Active duty military personnel stationed in California
• Dependents of active duty military personnel stationed in California
• Certain minors who stayed in California when parents moved
• Self-supporting minors
• Full-time employees of a state agency or a child or spouse of the full-time employee
• Those who attended a California high school for 3 or more years AND graduated from a California high school or attained an equivalent (GED or CHSPE). This exception does not grant California residency.

Right to Appeal
Students who have been classified as nonresidents have the right to a review of their classification (T5, 54010). Any student, following a final decision of residence classification by the Enrollment Services Office, may make written appeal to the Enrollment Services Office within 30 calendar days of notification of the final decision by the District regarding classification.

The appeal must be submitted to the Enrollment Services Office. Copies of the original application for admission, the residency questionnaire, and evidence or documentation provided by the student, with a cover statement indicating upon what basis the residence decision was made, must be forwarded with the appeal.

The Enrollment Services Office shall review all the records and have the right to request additional information from either the student or the Admissions Office. The Enrollment Services Office will render a final decision.

Within 30 calendar days of receipt, the Enrollment Services Office shall send a written determination to the student. The determination shall state specific facts on which the appeal decision was made.

International Students (F-1 and M-1 Visas)
Palomar College is authorized under federal law to enroll nonimmigrant alien students. The following is required for admission to the regular college program:

• International student application with passport size photo attached
• Palomar College Application for Admission
• Confidential financial statement certified by bank official
• Test of English As a Foreign Language (TOEFL) score of 470 (PBT) or 47 (IBT) or IELTS score of 5.0
• Proof of high school graduation
• Official transcripts of high school and all schools after high school
• Official transcript of any intensive English schools in the United States
• Copy of valid passport
• Affidavit of financial support

Application Deadlines:

FALL
May 1 Overseas applicants (to qualify for priority registration)
May 15 Transfer applicants (to qualify for priority registration)
June 30 Late transfer applicants (depending on availability of courses)

SPRING
Nov 1 Complete application packets submitted by October 15th qualify for priority registration (overseas and transfer students)
Nov 15 Transfer students who did not meet the priority registration deadline.

NOTE: Applications submitted by students who are already in the U.S. with the F-1 (student) visa after the application deadline may be accepted on a case by case basis (depending on the availability of courses).

SUMMER
April 15 Complete application packets submitted by March 1st qualify for Priority Registration for the Summer 2018 semester. Higher English proficiency is required.

International students are required to pay non-residential tuition. For informational brochure and/or application forms, contact:

Palomar College
Office of International Education
1140 West Mission Road
San Marcos, CA. 92069-1487 USA
(760) 744-1150 ext. 2167
(760) 761-3592 Fax
www.palomar.edu/internationalstudents
intladm@palomar.edu
**Student Success and Support Program**  
(formerly the College Matriculation Program)

Palomar College agrees to:

- Evaluate your English, math, and reading skills
- Help you register for appropriate classes
- Provide you with an orientation, and information on services available, and possible majors and/or careers
- Provide access to counselors and instruction

You agree to:

- Decide upon your major and goal
- Attend an orientation and assessment session
- Work with us to develop an educational plan by the time you have completed 15 units
- Attend and complete courses to make the best use of the time you spend at Palomar

The College may suspend or terminate services to any student who fails to fulfill his/her responsibilities. However, the College may never suspend or terminate any service for which a student is otherwise entitled under any other provision of law. In addition, students may challenge any matriculation requirement or regulation using the petition process.

Prior to registration, all non-exempt students must complete the following steps that apply:

- Submit an application for admission
- Send in all transcripts or previous assessment scores for consideration
- Sign up for and attend an assessment and orientation session at the Assessment Center, SU-1, or at the Escondido Education Center.

New, returning, or transfer students who may be exempted from the matriculation process are students who:

- Already have an associate’s or bachelor’s degree
- Are attending Palomar for personal enrichment
- Are enrolled only in noncredit community education courses
- Are taking classes only to upgrade job skills
- Are enrolled in apprenticeship or other special vocational education programs
- Are concurrently enrolled in another college or university

Exempt students are not required to participate in the matriculation process, but are encouraged to see a counselor at any time.

The goals of the Student Success and Support Program (SSSP) are to ensure that all students complete their college courses, persist to the next academic term, and achieve their educational objectives through admissions, orientation, assessment, educational planning with a counselor, and student follow-up.

**Assessment, Advisement and Orientation**

**What is Assessment?**

Assessment is the process the College uses to evaluate your skills in areas such as:

- Reading
- Writing
- Math
- English as a Second Language (ESL)

The English, Reading and Math Placement results are based on the information students provide while completing the online application for admission.

Results can be viewed on the e-services student portal, at the bottom right corner of the Student Center page in the Assessment/Placement Eligibility box.

In addition to answering the Multiple Measures questions on the application, the following options are also available to students:

- Students may submit documentation of previous college course work and/or assessment scores from another college. Scores expire after two years; course work does not expire.
- Students may submit CSU EAP scores to receive Palomar placement if they placed into college-level English and/or math.
- Non-native English speakers may participate in a specialized placement process. Contact the ESL Department.
- Special testing conditions are offered for disabled students through the Disability Resource Center (DRC).
- Students may place themselves in entry-level classes and progress through the curriculum without taking the assessment.

Student challenges to placement will be reviewed on an individual basis. Please contact the Assessment Office located in the Student Access/Assessment Center, SU-1.

**When do I need Assessment, Advisement and Orientation?**

New students must complete, advisement and orientation before qualifying to register for classes. Students who meet this requirement before the registration period for the next semester will receive an earlier registration appointment.

There are several other options for completing assessment, advisement, and orientation. These include special sessions for:

- Students with disabilities
- English as a Second Language students
- International students

Contact the Student Access/Assessment Center, see the current class schedule, or visit the website, http://www.palomar.edu/counseling/assessment for more information.

**What is Educational Planning?**

Educational Planning is the process of mapping your courses semester by semester. A counselor will assist you in choosing the appropriate course sequence that best fits your educational goal.

English, math, reading, and study skills are the foundation for success in other college-level courses.

**Complaints**

If you feel that assessment, orientation, counseling, or any other matriculation procedure is being applied in a discriminatory manner, you may file a complaint with the Dean of Counseling Services, ext. 2184.
Enrollment Conditions
Many courses and education programs of study have enrollment conditions such as prerequisites, corequisites, or advisories on recommended preparation. These faculty-approved conditions are considered necessary and appropriate to ensure that you are adequately prepared to succeed in the course or educational program.

Enrollment restrictions are defined below. It is your responsibility to meet any and all enrollment conditions.

What is a Prerequisite?
A prerequisite is a condition of enrollment that you are required to successfully (‘C’ or better) meet in order to demonstrate current readiness in a course or educational program. You may be required to show proof of meeting the prerequisite. Failure to meet the stated prerequisite may result in you being administratively dropped from the course.

What is a Corequisite?
A corequisite is a condition of enrollment consisting of a course that you are required to simultaneously take in order to enroll in another course. Failure to enroll in the stated corequisite will result in you being administratively dropped from the course.

What is an Advisory on Recommended Preparation?
Recommended preparation is a condition of enrollment that you are advised, but not required, to meet before or in conjunction with enrollment in a course or educational program. If you believe that you have satisfied the advisory by means other than the stated advisory, you are urged to consult with the appropriate department to determine your readiness to enroll in the course or educational program.

Are there other limitations on enrollment?
Yes. Enrollment in certain courses or educational programs of study may require try-outs, auditions, or may be limited by health and safety considerations, facility limitations, faculty workload, the availability of qualified instructors, funding limitations, or legal requirements imposed by statutes, regulations or contracts. All such limitations are in conformity with the provisions of Title 5, Section 58106, California Community Colleges Board of Governors.

What if I don’t have the necessary prerequisites or corequisites?
You may not be permitted to enroll in a class for which you cannot demonstrate you have met the prerequisite, or are enrolled in the corequisite. If it is determined after a course begins that you have not met the prerequisite, you may be administratively dropped from the course.

What if I am currently enrolled in the prerequisite when it is time to register for my class? Will I be prevented from enrolling in the next level course?
No. If you are currently enrolled in the prerequisite course at Palomar College, and it is assumed that you will pass the course with a ‘C’ or better, you will be permitted to enroll in the next level course. If you do not pass (D, F, FW, NP/NC, Inc, or W) the course, you will be administratively dropped from the class before the opening day.

Can I challenge a prerequisite or corequisite?
Yes, under certain conditions. Refer to the information on challenges below.

Challenging Prerequisites
You have the right to challenge any prerequisite. A prerequisite or corequisite challenge requires written documentation, explanation of alternative course work, background, abilities, or other evidence which has adequately prepared you for the target course. A Prerequisite or Corequisite Challenge Petition can be obtained from the Admissions & Records Office, the Counseling Center, or an Education Center or Site.

Reasons for seeking a Prerequisite and Corequisite Challenge Petition may include one or more of the following:
- A prerequisite or corequisite has not been made reasonably available.
- A prerequisite or corequisite has not been established in accordance with the District’s process for establishing prerequisites and corequisites.
- You can provide evidence of having the knowledge or ability needed to succeed in the course despite not meeting the prerequisite or corequisite.
- You may challenge other limitations on enrollment.
- You may challenge a prerequisite or corequisite established to protect the health and safety of himself, herself, and/or others.
- A prerequisite, corequisite, or limitation on enrollment is discriminatory or applied in a discriminatory manner.
- A prerequisite or corequisite is in violation of Title 5.

If space is available in the target course when you file a challenge to the prerequisite or corequisite, the College shall reserve a seat for you and resolve the challenge within five working days. If the challenge is upheld or the College fails to resolve the challenge within the five working day period, you shall be allowed to enroll in the course. If no space is available in the course when a challenge is filed, the challenge shall be resolved prior to the beginning of registration for the next term, and if the challenge is upheld, you shall be permitted to enroll if space is available when you register for that subsequent term.

Transcripts/Advanced Standing
Although not required for admission, it is highly recommended that students provide the college with official transcripts from all other colleges attended upon enrollment.

Official transcripts are required for:
- Transfer credit course work to be applied to current Palomar educational goals
- Transfer credit course work to be applied to pre- and corequisite requirements
- Associate degree evaluation
- Certification of lower-division course work for CSU or UC transfer
- Veterans educational benefits certification
- Nursing program admission

Financial Aid students should refer to the Satisfactory Academic Progress (SAP) policy on the Financial Aid website, www2.palomar.edu/pages/fa/, for information on financial aid transfer credit requirements.
Transcripts received become the property of Palomar College and cannot be returned to the student or forwarded to other schools. If a student has submitted transcripts from another institution, and has not attended within two years or has not applied for graduation, transcripts may be purged from the student’s records and must be re-submitted by the student.

Courses, units, and grades from other regionally accredited colleges and universities that are accepted will be applied toward the completion of academic degrees or certificates of achievement at Palomar College. Units accepted may also be applied toward transfer patterns to four-year institutions.

Transcripts from foreign schools or universities must be evaluated by an approved credentials evaluation service.

Refer to the Academic Regulations and Standards section of the catalog regarding acceptance of non-traditional credit.

**Student Classification**

**Freshman**
A credit student who has completed less than 30 semester units.

**Sophomore**
A credit student who has completed 30 or more semester units, but does not have an Associate degree.

**Unclassified**
A registered credit student who, by definition, is neither a freshman nor a sophomore.

**Financial Aid Applications and Enrollment Options**

**Fees**
Students are encouraged to apply for financial aid online as early as possible. Though applications are accepted throughout the academic year, students should apply before March 2nd to maximize their eligibility potential for both federal, state and institutional financial aid. Information and application links to the Free Application for Federal Student Aid (FAFSA) and California Dream Act Application (CADA) are available on the Palomar College financial aid webpage at https://www2.palomar.edu/pages/fa/.

Current and potential financial aid students are advised to only take courses that are required for their declared program of study at Palomar College.

California residents and other eligible students not already awarded a California College Promise Grant (CCPG) through the FAFSA or CADA may apply online for the CCPG through their eServices link “Apply for a California College Promise Grant” located under the Financial Aid section of their Student Center page. Students must meet residency and academic eligibility requirements to access this link.

**Online Classes**

Online classes offer convenience for students with busy schedules. Students must have reliable access to e-mail and the Internet. You can “attend class” at any hour of the day or night, and communicate with your instructor via e-mail or electronic discussion boards as your schedule allows. Attendance at some on campus activities may be required for some on-line classes. Student financial aid awards may be impacted in certain cases. Please check with the Financial Aid Office for more information. Online classes are academically equivalent to traditional face-to-face classes. For more information, visit our website at https://www2.palomar.edu/pages/atrc/canvas/.

**Saturday Classes**

Academic or vocational courses taught on Saturdays, generally in the mornings. May be either full term or short term.
Self-Paced Classes (Open Entry)
Courses which allow flexibility in scheduling, where a student may enroll at any time up to a designated date in the semester/session. Hours of attendance are arranged with the instructor. Depending upon unit value, a specified number of hours must be completed to receive credit.

Short Term Classes
Any course which is less than 16 weeks.

Summer Bridge
A three-to-four week non-credit program whose goal is to assist students in improving their skills in English, ESL and/or Math while receiving instruction in reading and college success skills. At the end of the program, students will have an opportunity to re-assess to determine if they have placed higher in the subject area. For more information, please visit our website, www.palomar.edu/summerbridge.

Summer Session
Mini sessions offered during the summer, generally either 6 weeks or 8 weeks in length.

Video Classes
A college credit course which uses cable television, streaming video, DVDs, and 5-7 campus meetings to deliver instruction. Video classes include video programs, textbooks, assignments, examinations, and class discussion. This type of class allows students to study and complete course work when and where it is convenient for them to do so. Student/Instructor interaction occurs online and at scheduled campus meetings. The course syllabus, other instructional materials, and the streaming video are accessed through the Blackboard online system. Video is also available on cable television and via DVD checkout at the Palomar College San Marcos campus library and some Palomar College sites. Video courses are academically equivalent to traditional campus courses, and satisfy pre-collegiate, elective, or general education requirements toward certificate or A.A. degree programs. For more information, visit www.palomar-tv.com.

Weekend College
Attend classes offered on Friday evening, Saturday and Sunday.

Workforce and Community Development Seminars
Not-for-credit workshops, classes, seminars, activities, and events to help you continue learning throughout your life. Usually taught as evening or weekend courses.

Enrollment Procedures
All new and returning students should submit their application for admission as soon as possible after the date applications are first accepted. Early applications secure earlier enrollment appointments. Check the college calendar in the front pages of this catalog for the dates applications are accepted or check our web page at www.palomar.edu/admissions for the most current information.

The Class Schedule
Students are informed of the enrollment procedure to be followed in the official Class Schedule for each semester.

Online Enrollment
All students may use MyPalomar to enroll. Continuing students have automatic eligibility to enroll. New students may apply online at www.palomar.edu or by submitting an Application for Admissions to the main campus or at a College Center. Returning students may enroll after updating their application data online through their eServices account. All students are issued a unique Palomar student ID number, which will be used for enrolling and all other transactions with Palomar. See the Class Schedule for more information.

Enrollment Appointments (Priority Registration)
Enrollment appointments are assigned times in which a student can first register for classes for an upcoming term. Palomar College’s system for distributing enrollment appointments is published in the Class Schedule.

Our system is designed to:
• reflect our core mission of transfer, career technical education, and basic skills development;
• encourage students to identify their educational objective and follow a prescribed path most likely to lead to success;
• ensure access and the opportunity for success for new students; and
• incentivize students to make progress toward their educational goals.

Students are assigned to one of eight groups:

Group 1.
Disability Resource Center (DRC), EOP&S, foster youth, CalWORKS, eligible veterans, and active duty military personnel

Group 2.
Students in their last term of attendance prior to graduation or transfer.

Group 3.
New, returning, transfer, and continuing students who complete orientation, assessment and development of an educational plan.

Group 4. (SSSP Category 3)
Continuing students

Group 5. (SSSP Category 3)
Continuing students

Group 6.
New, returning, or transfer students who are not in Group 3.

Group 7.
Returning or continuing students with 90 or more earned units of credit completed at Palomar College (as earned units are defined earlier in this Administrative Procedure) and/or students who have been on Academic or Progress Probation for two or more consecutive terms.
Group 8.
Non-high school graduates age 16 to 18. Students less than 16 years of age require permission of the instructor to enroll in classes.

A student who has been on Academic or Progress probation for two consecutive terms and/or who has earned 90 or more degree-applicable earned units completed at Palomar College will be placed at the end of the priority registration cycle.

The units that are counted towards the 90 earned units limit are defined in Title 5, Section 55023, and include courses with grades of A, B, C, D, and P. Grades of W, I, F, FW, MW, and NP are excluded. Also excluded are Basic Skills and Non Credit ESL.

Palomar College may allow students who have demonstrated significant academic improvement to appeal the loss of priority enrollment status due to having been on Academic or Progress Probation for two or more consecutive terms. Significant academic improvement is defined as achieving no less than a 2.0 GPA and successful completion of more than 50% of course work for the term or terms. Students in “high unit” majors may petition for an exception to the limit of 90 earned units. High unit majors are defined as programs requiring more than 40 units. Petitions are submitted to the Admissions Office and will be reviewed by the Program Eligibility Appeals Committee.

Procedure for Adding and Dropping Classes
Add and drops are processed online through MyPalomar until the semester deadline date (see Class Schedule). You may be required to obtain a permission number from the instructor to add a class.

All additions to a student’s program must be processed within the first two weeks of classes. Exceptions to this deadline include late-start and open-entry classes.

Official Withdrawal
Students must drop classes by using MyPalomar. Refer to “Dates and Penalties” below for any penalties which may be imposed.

Unofficial Withdrawal
Students who simply stop attending class and do not drop through MyPalomar have unofficially withdrawn. These students may receive an “F” or “FW” grade in every class they stop attending.

Administrative Withdrawal
Administrative withdrawals may occur for academic or disciplinary reasons, or for non-payment of fees. If the administrative withdrawal occurs after the refund period, the student will not be entitled to a refund or waiver of registration fees.

Dates and Penalties
If a student processes a drop during the first two weeks of a full semester course, or first 20% of a short-term course, no grade will be assigned and no notation will appear on the student’s permanent record.

Between the second week and the eighth week of a full semester course, or between 20% and 50% of a short-term course, a student may process a drop at his or her discretion and receive a withdrawal (W grade).

After the eighth week of a full semester course, or 50% of a short-term course, only evaluative (A, B, C, D, F, FW) or Incomplete (I) grades shall be assigned.

All students are expected to attend classes. Failure to attend classes can result in an “FW” grade, unless the student executes a drop within the time periods indicated above. Refer to the college calendar in the front pages of this catalog for specific dates or check our web page at www.palomar.edu/admissions for the most current information.

Petition Appeal Procedure
Students who have verifiable extenuating circumstances may petition to withdraw from a class after the eighth week of a full semester course, or 50% of a short-term course. See “Conditions for Petition to Withdraw” listed under the Grading System in Section 5 of the catalog.

Class Cancellations/Changes
Palomar College reserves the right to cancel any class for which the enrollment is not sufficient to warrant continuation, and to change the class hours and/or days as necessity demands. Students enrolled in classes that are cancelled by the College are entitled to a refund of fees, with no processing charge.

Fees and Expenses
Palomar College is a public California Community College. All students must pay enrollment and health fees; California non-residents and international students must pay non-resident tuition.

Fee Payment Procedure
Students are responsible for paying all mandatory fees. All fees are due at registration. Students who do not pay for their classes may not be dropped, and will still owe enrollment fees. The college will waive or refund enrollment fees only when a drop is processed within the first two weeks of a class. Failure to make payments of any amounts owed to the College when they become due is considered sufficient cause to withhold future enrollment, grades, transcripts, diplomas, certificates, and/or degrees. Unpaid fees are subject to collection penalties.

Fees are subject to change; please check the current class schedule for a complete, up-to-date list. All required fees must be paid at the time of registration.

For information on exemptions from fees, please refer to the current class schedule or check with the Financial Aid Office. Active duty military members should contact their Base Education Office for information on tuition assistance.

Auditing Fee
$15 per unit - Refer to Section 5, Auditing a Class, for specific information on selecting audit status. Not considered for BOGW or Financial Aid eligibility.
Capital Outlay Fee
$5 per unit - This is an additional fee for non-resident and international students. This fee is subject to change. Please refer to the current class schedule.

Classroom Expenses
Students will incur a reasonable amount of general classroom expenses (for example: supplies, materials for homework projects, printing or copying costs). Some classes may require additional expenditures, such as for field trips, admission fees to public attractions or performances. When required, such expenses are generally noted with the respective class in the Class Schedule or class syllabi.

Enrollment Fee
$46 per unit - This mandatory fee is subject to change.

Health Fee
A health fee is charged to all students for operation of the Student Health Centers as authorized in Education Code Section 76355.

The following students are exempt by law:
- Students who are taking only apprenticeship classes.
- Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.

Other exempt students include:
- Students who are active duty military and taking classes exclusively at the Camp Pendleton Center or who are deployed overseas.
- Students who exclusively attend Not-for-Credit instruction.
- Students who are exclusively taking contract education classes.
- Students who are exclusively enrolled in credit and non-credit classes at educational sites where Palomar College does not offer Student Health Services.
- Students who are taking classes exclusively via distance education.

Materials Fee
Students may need to provide materials required for a credit or noncredit class. Such materials must be of a continuing value to the student outside of the classroom setting. The materials may be available through the District or may be purchased elsewhere.

Non-Resident Tuition
$258 per unit. California non-residents and international students must also pay all other applicable fees. Please refer to the current class schedule.

Nonsufficient Funds Fee
$20 for each check returned to the College.

Parking Fee
$40 per semester, $20 for students receiving BOGW - Please refer to the current class schedule.

Student Activity Card
$15 per semester. This card will serve as a picture identification card, and is imprinted with your student identification number which is required for all transactions with Palomar. Cards are produced in SU-202, where you may also receive a brochure highlighting benefits of the card.

Student Center Fee
$1 per unit up to a maximum of $10 per year - This fee is charged for classes taken at the San Marcos campus only. The funds generated from this fee will finance the construction, enlargement, refurbishing, and operation of a student body center, also known as a Student Union (beginning Spring 1999).

Student Representation Fee
$1 per semester - This fee provides for the support of student representatives who state positions and viewpoints before city, county, and district governments, and before offices and agencies of the state government. A student may waive the Student Representation Fee for religious, political, financial, or moral reasons. Waiver forms are available online at www.palomar.edu/studentactivities/.

Transcript Fees
First 2 requests ever: Free
3rd request and up: $5.00 each
Rush service: Additional $5.00 each
Online request: $13.00 each

Verification Fees
Fee requests include verification of semester units, overall units, and military dependent ID requests
All requests: $5.00 each
Rush service: Additional $5.00 each
Non-fee requests include federal loan deferments and non-enrollment.
Refer to Section 5, Official Transcript and Verification of Enrollment, for specific information on requesting transcripts and verifications.

Refunds
Refund Policy for Resident Student Fees
Please see the current class schedule for policy and appropriate dates/deadlines.

Non-Resident and International Student Tuition
Refunds are made only to students who officially withdraw from a class or from the College by the refund deadline. Please see the current class schedule for the appropriate deadline date.

Parking and Materials Fees
Please see the current class schedule for information.

Appeal Procedure
Any appeal of the rules for obtaining a refund of fees above must be made in writing (Petition for Refund) to the Senior Director of Enrollment Services. The appeal must include the reason(s) for requesting an exception, and any available background material to support the reason(s).
Admissions and Records
Admissions & Enrollment, SSC-49, Ext. 2164
Evaluations & Graduation, SSC-40, Ext. 2165
Student Records & Transcripts, SSC-55, Ext. 2169
All students must submit an application for admission in order to attend Palomar College. The admissions application permits a student to enroll, and establishes a history for each student. The Admissions Office processes adds, drops, reinstatements, refund petitions, and applications for audit and Pass/No Pass (Credit/No Credit).

The Records and Evaluations Office is responsible for maintaining academic records, enforcing academic regulations, and awarding degrees and certificates. The Records Office processes grades; maintains student academic history; processes requests for transcript and verifications of enrollment; receives transcripts, test results, etc. from other institutions; and processes Petitions for Academic Renewal and Credit by Examination. The Evaluations Office processes petitions for graduation and transfer; evaluates transcripts and records; posts degrees, certificates, and transfer certifications; processes Academic Standing, including Dean’s List and Probation/Dismissal; and processes Petitions for Course Repetition.

Articulation Services
AA-114, Ext. 2737
The Palomar College Articulation Officer secures course articulation agreements with colleges and universities throughout California and out-of-state. Students use these agreements to plan their educational programs in preparation for transfer to a four year college or university. Agreements and course requirements are available in the Counseling offices, online at http://www.assist.org, and on the Articulation website at http://www.palomar.edu/articulation/.

Athletics
O-10, Ext. 2460
The intercollegiate athletics program at Palomar College is one of the most comprehensive and diverse among the California Community Colleges, featuring 22 varsity sport programs and over 450 student participants annually. Palomar fields intercollegiate teams in the following men’s sports: baseball, basketball, cross country, football, golf, soccer, swimming and diving, tennis, volleyball, water polo, and wrestling. The list of women’s sports includes: basketball, beach volleyball, cross country, golf, soccer, softball, swimming and diving, tennis, track and field, volleyball, and water polo. Additionally, the Athletic Department oversees a co-educational cheerleading program. Students must meet the eligibility standards of the California Community College Athletic Association in order to represent the institution athletically. Please contact the Athletics Department for more information.

Bookstore Services
SU Bldg., Ext. 2220
The Palomar College Bookstore provides print and digital textbooks for sale and/or rent. The Bookstore also provides supplemental reading materials, supplies, Palomar-imprinted merchandise, as well as computer products including laptops, tablets, and educationally discounted software to students, staff, and faculty. Textbook services are provided by the bookstore at most Educational Center locations. Please check the Class Schedule for exact times and locations. The Bookstore is a lease operation run by Follett Higher Education Group and is responsible for its own income and expenses. Hours of operation for the San Marcos campus vary throughout the year. Please visit www.palomarstore.com for the most current information on the Palomar College Bookstore.

Campus Tours
Ext. 3756
Palomar College offers campus tours to prospective students at any stage in their educational journey. Join us for a walking campus tour and learn about our degree offerings and student support services, while we connect you to the resources that will launch your academic success. Individual, group, veteran/military and academic specialized tours are available. Please request group tours at least one month in advance to provide us with efficient time to work with our colleagues to prepare a tour that meets the needs and size of your group. For more information, please contact Outreach Services at (760) 744-1150, Ext. 3756 or outreach@palomar.edu. Please visit www.palomar.edu/tours to request any of our tours.

Career Center
SU-17, Ext. 2194
The Career Center provides student assistance and guidance with goal setting and accessing available career resources to make better-informed career decisions and/or major selection that lead to satisfying employment (professional and/or technical). Resources include an up-to-date computer lab with internet access, career counseling appointments, a career reference library, job search/job announcement information, computerized career assessments and inventories, career workshops, and an annual Job Expo.

The Career Center offers Counseling 165 (a one-unit class) each semester. The Career Search class consists of four sessions and students receive a P/NP grade upon completion.

For more information call 760-744-1150, ext. 2194 or visit our website at www.palomar.edu/counseling/careercenter.

Cashier Services
Administration Building (A-2), ext. 2114
at San Marcos Campus
Main Lobby at Escondido Center
The Cashier Services Office processes student payments for enrollment, tuition, parking permits, optional fees, holds, and fines. Student discount Sprinter/Breeze passes are available for purchase in the Cashier's Office. For more information about Cashier Services, visit the web site at http://www2.palomar.edu/pages/fiscalservices/home/cashier-services/
Counseling Services
SSC-24, 760-891-7511

Academic, career, and personal counseling related to academic success are provided in the Counseling Center, located in the Student Services Center. Counseling services are provided according to the needs of each student as described below.

Academic counseling is available to students seeking assistance with scheduling or clarification of requirements for certificates, graduation, or transfer. Students are encouraged to meet with a counselor each semester to assure careful course selection and to remain current on evolving degree and transfer requirements.

Career guidance is available in the Career Center located in SU-17. Assistance in preparing to transfer is available in the Transfer Center, located in the Student Services Center.

Assessment and orientation services are provided in the Assessment Center, located in SU-1.

Personal counseling is available to students who may seek the assistance of a professional counselor in finding solutions to problems that may be affecting their academic progress. A counselor may also provide further assistance in helping students understand their attitudes, feelings, and academic potential, thereby enabling them to make realistic decisions. Appropriate referrals may also be given.

Disability Resource Center (DRC)
DSP&S Bldg., Ext. 2375

DRC provides special counseling, services and instruction for students with physical, learning, vision, hearing, communication, and psychological disabilities.

Services for verified students may include DRC orientations, academic counseling, interpreters for the deaf, real-time captioning, note taking assistance, testing accommodations, access to alternate media, priority registration, and special parking.

Supportive instruction includes courses in English, math and adapted classes in Kinesiology.

An adapted computer instruction program provides varied instruction for students with specific disabilities.

Special equipment includes digital audio recorders, assistive listening devices, and other access technology.

The DRC program acts as an advocate for students with disabilities representing their interests on campus as well as with various state and local agencies including the State Department of Rehabilitation.

Call the DRC for further information at 760-744-1150, ext. 2375, or visit our website at www.palomar.edu/drc.

For questions regarding academic accommodations please see “Academic Accommodations for Students with Disabilities” in Section 4 of this catalog.

Early Childhood Education Lab School
ECELS Bldg., San Marcos Campus, Ext. 2575
Escondido Center, Ext. 8155

The Early Childhood Education (ECE) Lab School offers toddler, preschool, and transitional kindergarten programs.

The ECE Lab School in San Marcos provides services to approximately 130 children ages 18 months through transitional kindergarten. The ECE Lab School receives funding from the California Department of Education and from parent fees. The ECE Lab School serves children of Palomar College students, faculty, staff, and community members. The ECE Lab School also serves as a laboratory for students who are Child Development majors. Students are trained in proper room environments, appropriate group experiences, activities, and techniques.

The ECE Lab School in San Marcos is open from 7:00 a.m. to 5:45 p.m., Monday through Friday. Children must be enrolled in a minimum of two days. Enrollment is not available on a drop-in basis. Subsidized services are provided to the children of income-qualified Palomar College students and community members at no or low cost, based on family size and income.

The ECE Lab School in Escondido has four state preschool programs. These programs are three hours and fifteen minutes long, five days a week, and are funded to provide preschool experiences to children before kindergarten. The programs are available to children of any family within our community who are low-income and meet the guidelines set forth by the California Department of Education.

Extended Opportunity Programs and Services EOPS/CARE
AA-141, Ext. 2449

EOPS is a state-funded program designed to provide support services and benefits to students who are financially and educationally disadvantaged. CARE, also a state-funded program, assists single parent recipients of TANF/CalWORKs who would like to attend college. These programs offer academic and support counseling, priority registration, four-year college fee waivers, student success workshops, financial aid and other support services. The EOPS/CARE office is located on the San Marcos campus, in room AA-141. The office is open Monday through Thursday, 8:00 a.m. to 5:00 p.m., and Friday, 8:00 a.m. to 12:00 noon. Phone: 760-744-1150 ext. 2449; website www.palomar.edu/eops/.

The CalWORKS program serves parents who are attending school as part of their welfare-to-work plan with the county. To be eligible, the student must be a current CalWORKS recipient or have received aid within the last two years. The student must also be working toward a certificate, AA degree, transfer to a four-year university, or to improve work skills.

Benefits include: academic and support counseling, priority registration, student success workshops and work study jobs. The student does not have to be a full-time student to receive benefits. Phone 760-744-1150, ext. 2449.

The above paragraphs do not include all information and requirements necessary to be eligible for services. Students are expected to view detailed information on department websites or to stop by the office for further discussion with a staff member.
Financial Aid & Scholarship Services (FAVSS)
SSC-50, 760-891-7510
Palomar College participates in various federal and state programs that provide its students financial assistance to pay for their educational costs for pursuing an academic program at the College. We provide waivers, grants, scholarships, part-time employment and student loans to eligible students. Please visit our webpage for detailed information on applications, initial and continuing eligibility, financial assistance programs, deadlines and forms. For general financial aid questions email us at faind@palomar.edu or contact our office via telephone. Current students should email us from their Palomar College email account and include their Palomar College student ID number in the message. You may stop by our office if you have concerns or questions related to your specific circumstances. To protect your privacy, valid government issued identification will be required to release student specific information. We can provide only limited award and application details over the phone. Please see https://www2.palomar.edu/pages/enrollmentservices/student-rightsprivacy-student-records/ for FERPA information.

Please be advised official financial aid communications will be emailed to your Palomar College student email account.

The Free Application for Federal Aid (FAFSA) is required to determine eligibility for all student aid programs. The FAFSA is also used to determine eligibility for state programs and Palomar College scholarships. The FAFSA is available to all U.S. citizens and eligible noncitizens. Application deadline is April 15th. Eligibility details are available at https://studentaid.ed.gov/sa/eligibility/basic-criteria.

The California Dream Act Application (CADA) is available for eligible students unable to submit a FAFSA and is used to determine eligibility for state financial assistance programs and Palomar College scholarships. The CADA is available online at https://dream.csac.ca.gov. Eligibility details are available at http://www.csac.ca.gov/dream_act.asp.

California College Promise Grant (CCPG)
Formerly known as the Board of Governor Fee Waiver (BOGW) program, CCPG waives the enrollment fees for eligible California residents and qualified AB540 and AB 1899 students (determined by Enrollment Services). Residency information and forms are available at Enrollment Services, in the student services Center or online at https://www2.palomar.edu/pages/enrollmentservices/residency/. Initial eligibility and awards for CCPG will be made using official FAFSA or CADA and admissions data. Eligible students not already awarded a CCPG may apply online through their eServices link “Apply for a California College Promise Grant” located under the Financial Aid section of their Student Center page. Students not meeting academic eligibility may apply for reinstatement for CCPG via appeal. For additional information see Enrollment Services.

Cal Grant (Cal B, C)
This is a state-funded program and is awarded to students based on a formula determined by the California Student Aid Commission. The formula includes factors such as income/assets and grade point average. Students must have a minimum enrollment of six (6) units.

Full Time Student Success Grant (FTSSG)
This is a California state-funded program. It is awarded to students who are enrolled in Full-Time units and who have also been awarded either a Cal Grant B or Cal Grant C.

Community College Completion Grant (CCCG)
CCCG is designed to encourage faster completion of an eligible degree or certificate. Students receiving a Full-Time Student Success Grant (FTSSG) may also be awarded the CCCG if they are on track to complete their academic program of study on time and maintain at minimum a 2.00 cumulative grade point average (GPA). For example, students pursuing an associate degree must be able to complete the program in two (2) years which generally requires enrolling in 15 units per semester.

Federal Pell Grant
This grant is an entitlement award and usually awarded to low-income students. Students with a Bachelor’s Degree are not eligible, except for limited exceptions. Contact the Financial Aid Office for details.

Federal Supplemental Educational Opportunity Grant (FSEOG)
This grant is usually awarded to students who have already been awarded the Pell Grant and have demonstrated high unmet financial need. Students must have a minimum enrollment of six (6) units.

Federal Work Study (FWS)
This program provides part-time employment on campus. The award does not have to be repaid BUT must be earned through employment on campus. Students must have a minimum enrollment of six (6) units.

Scholarships
Private scholarships sponsored by individuals and organizations are available. Selection criteria and amounts are determined by the donors and vary.

The Scholarship Application process runs once a year between January and March. The application can be found on the student’s MyPalomar (eServices) account. There are also various Outside Scholarships that are posted on the Outside Scholarship webpage: https://www2.palomar.edu/pages/fa/scholarship1/. Students are encouraged to check our web site at https://www2.palomar.edu/pages/fa/scholarships/ to find out more regarding the Scholarship Application dates and information.

Subsidized William D. Ford Federal Direct Loan
This is a federal student loan program in which the government makes loans available to students to be used for direct educational expenses. The interest rate is set by the Federal government. Repayment begins six (6) months after the student is no longer enrolled in college or drops below six (6) units of enrollment. The government does not charge interest on the loan while the student is in school.
IMPORTANT INFORMATION CONCERNING UNSUBSIDIZED LOANS:
Palomar College has been approved by the U.S. Department of Education to participate in an experimental initiative to reduce student loan burden and the risk of loan default. As a result, specific student categories will be unable to borrow unsubsidized loans. For more information please visit Direct Loan Q & A webpage: https://www2.palomar.edu/pages/fa/files/2017/07/2018_DL_QA.pdf.

Out-of-State Deferment
Eligible out-of-state financial aid students may request a no cost deferment to insure that they are not dropped from classes for nonpayment of fees. If approved the deferment will be in place until the eighth (8th) week of the semester allowing nonresident students additional time to pay their fees. This generally requires the student to request an appointment with an advisor to go over financial assistance options including federal student loans to pay for mandatory fees. Both financial aid and non-financial aid students may elect to participate in the Palomar College tuition payment plan instead. Payment plan benefit and cost information is available at http://mycollegepaymentplan.com/palomar/.

Data Matches
Federal student aid applicants are processed using their social security number. The name used on your FAFSA and admissions application must match the name on your social security card to avoid delays in determining your eligibility for student aid.

Students that will submit the CADA should use the name reported to their high school. Make sure this name is also used on your Palomar College admissions application.

Food Services
SU Bldg., Ext. 2232
Dining Services offers a wide range of options for students, faculty, staff, and visitors on the Palomar College Campus.

Comet Café: (located next to the Bookstore) offers a variety of fresh food options in a retail food court environment for guests to choose from. Come visit our very own Subway® for custom made sandwiches and salads the way you like it. Bene Pizzeria offers freshly baked pizza and Italian specialties. Grille Works offers a hot egg breakfast to get you started right in the morning, and a selection of hot grill favorites for lunch, like the Angus burger or Philly Cheese Steak. Greens-to-Go is a custom in-line salad station with a light and healthy variety of freshly prepared items. Kettle Classics provides a daily selection of hot soups. For convenience on the go, the food court also carries an assortment of whole fruit, fountain & bottled beverages, coffee, snacks, and ready-to-eat sandwiches and salads made fresh daily on location.

Student Union: Java City® can whip you up a custom hand-crafted Espresso, frozen Javalanche®, Iced Mocha or a feature brewed coffee morning, noon and night. While our very own Jamba Juice® specializes in signature blended fruit & vegetable smoothies, frozen creamy treats, and other health conscious snacks to keep you focused on your studies, and your health.

Convenience Stores: The Snack Shack located at Bldg. RF-1, and the Student Lounge located in E-201 at the Escondido Education Center offer an assortment of whole fruit, bottled beverages, coffee, snacks, and ready-to-eat sandwiches for students, faculty & staff.

Catering Services: Available for On-Campus Events with an array of food and beverage selections designed to meet a variety of needs. We are dedicated to providing you with the highest quality of catering services, from a simple coffee break, or meeting snack to full receptions and banquets. Please visit our website http://www.palomarcollege.catertrax.com to place your next order, or call us at x2232 to inquire.”

GEAR UP
TCB-4, Ext. 3680
GEAR UP (Gaining Early Awareness and Readiness for Undergraduate Programs) is a Palomar College educational partnership grant program with the San Marcos Unified School District (SMUSD), Escondido Union School District (EUSD), and Escondido Union High School District (EUHSD) San Marcos Middle School, San Marcos High School, Mission Hills High School, Mission Middle School, Del Dios Middle School, Hidden Valley Middle School, Orange Glen High School, Escondido High School, San Pasqual High School, Encuentros, CSUSM, Parent Institute for Quality Education, YMCA, The Boys and Girls Club of San Marcos, San Marcos and Escondido Chambers of Commerce, CONNECT, College Board, Life Technologies, North County Times, and the Cities of San Marcos and Escondido.

GEAR UP staff work with SMUSD and EUHSD students in the classes of 2017 and 2018, parents, teachers, and administration to offer a variety of early academic intervention programs and services, while creating a college-going school culture and helping ALL students to succeed and make plans to pursue higher education.

GEAR UP provides a wide network of support with the involvement of community-based organizations, businesses, local colleges and universities, and Palomar College students, faculty, and staff. GEAR UP creates innovative programs that help all students within an entire grade level while creating positive changes for student success. Funded through the United States Department of Education, GEAR UP is mandated to create a dollar-for-dollar match through community contributions, college involvement, and in-kind support. The primary objective is to create a seamless education from K-to-College for students and their parents, and to promote college knowledge early so more students are better prepared for postsecondary education.

GEAR UP has opportunities for student employees (tutors/mentors), volunteers, federal work study students, faculty/staff, and community service learning students to get involved in K-12 education as part of the school day, after school, or with our evening and weekend programs, events, or field trips. Anyone interested should contact Grant Funded Student Programs/GEAR UP at 760-744-1150, ext. 3680, or visit our web site at www.palomar.edu/gearup.
**International Education**

SU-103, Ext. 2167

The Office of International Education specializes in admitting and assisting international students on F-1 and M-1 visas. Palomar College has approximately 250 international students enrolled each year, representing over 30 countries. The Office of International Education administers specialized orientation and assessment sessions for their students, as well as offering assistance with class selection and registration. The office also assists students with immigration advising, housing needs when possible, and a variety of academic and personal issues that may arise during their stay at Palomar.

The office maintains information on TOEFL exams, medical insurance requirements, and foreign credentials evaluation services. For detailed information on international student admission, please refer to Section 2 Admissions and Registration, call the Office of International Education at 760-744-1150, ext. 2167, or visit our web site at http://www.palomar.edu/internationalstudents.

**Library Services**

San Marcos: LL Bldg., Ext. 2612
Escondido Center: Ext. 8113

The Library provides Palomar College students and faculty with over 135,000 books, periodicals, and media resources in all subjects and disciplines at both the San Marcos Campus, Escondido Center, and online. Students have access to millions more full-text journal articles, ebooks, and streaming films both on- and off-campus through the Library's online research databases. On-site reference and research assistance is available from faculty librarians during business hours, or online 24/7 through the Ask-A-Librarian chat service. Additionally, the Library offers a number of other programs and services to help students succeed at Palomar, including current class textbooks for in-library use, library instruction, online tutorials, and interlibrary loan of materials from other libraries. Free campus wifi and internet-connected computers are available for use at no charge, and self-service photocopiers and printers provide low-cost printing and copying options. All online resources and information about Library programs and services may be found using the Library’s website http://www2.palomar.edu/pages/library.

**Puente**

The Puente program is a national-award winning program that has helped thousands of students transfer to a university, earn degrees, and return to the community as leaders and mentors to future generations. Puente students commit to two consecutive semesters of English (Eng 50 or 50A and Eng 100) instruction, Counseling (Coun 110 & Coun 101), and mentoring. For additional information, please visit http://www.palomar.edu/puente

**Student Affairs**

SU-201, Ext. 2594

The Office of Student Affairs is a very valuable resource for students. The Director of Student Affairs is responsible for student co-curricular activities, the Associated Student Government, clubs, student discipline, administration of the District’s free speech policy, Student Union usage, and commencement. Students and members of the community can access and post on the Office e-classified ads. The Office of Student Affairs also administers the Gene Jackson Emergency Loan Program and the Textbook Purchase Loan Program for qualified students. All vendors desiring access to the college community must have approval from this office. This office also handles grievances and manages the Anita and Stan Maag Food and Nutrition Center, SEAL Center, and Student Hub.

The Anita and Stan Maag Food & Nutrition Center is maintained by the Office of Student Affairs (OSA). This center serves as a food bank for Palomar College students, faculty, staff and community members who need a helping hand with emergency hunger. The food bank, operating since 1983, is housed at the Palomar College Anita and Stan Maag Food & Nutrition Center, SU-40. The OSA is committed to supporting a healthy and safe environment for our community. To access the food bank, students, staff and community members can simply walk into SU-201 during regular office hours and student affairs staff will assist. Food Bank services are available at the Centers and can be arranged by calling the OSA at 760-744-1150 ext. 2594. If students need services after hours, contact the Palomar College Police Department at 760-891-7273, for an emergency pack of food and personal care items. To learn more, please contact the Office of Student Affairs. Phone: 760-744-1150 ext. 2594. More information is available on the Student Affairs Website: www2.palomar.edu/pages/studentaffairs/

**Student Hub,** located in SU-22, is an extension of the Anita and Stan Maag Food & Nutrition Center. 'The Hub' operations include development and implementation of student programs and services. Resources will be available such as signing up for Cal Fresh, partnership with Comet Closet, collaborative efforts with food security, off campus partnerships, and appropriate referrals. 'The Hub' will serve as a safe place for students to relax and connect with on campus and off campus resources. To learn more, please contact the Office of Student Affairs. Phone: 760-744-1150 ext. 2594. More information is available on the Student Affairs Website: www2.palomar.edu/pages/studentaffairs/

**SEAL Center (Success, Equity, Advocacy & Leadership)** will provide an engaging atmosphere for all students to meet, connect and network with club members associated with various student organizations on campus. Several student leadership, equity and advocacy workshops/events will be hosted each semester in the SEAL Center. Meeting space is also available for student club committees and/or student workgroups. The SEAL Center is located in SU-19; to learn more, please contact the Office of Student Affairs. Phone: 760-744-1150 ext. 2594. More information is available on the Student Affairs Website: www2.palomar.edu/pages/studentaffairs/

**School Relations**

SU-1, Ext. 2182

School Relations is coordinated through the Counseling Department. Activities with local high schools and middle schools are planned and conducted on an individual basis to initiate and maintain positive relations. For more information please contact the Assessment Coordinator/School Relations, 760-744-1150, ext. 2182, or e-mail Assessment@palomar.edu.
Student Activities Office (SAO)  
SU-202, Ext. 2594  
The SAO provides many valuable services to the students of Palomar College. This office is an excellent source of information about the college, student life, and student activities. The SAO produces and renews the Student Activity Card for currently enrolled students. The activity card has many benefits, including, serving as an identification card, which is used throughout the campus. The activity card is necessary when using the services of Admissions, Bookstore, Counseling, English Lab, Math Center, Library, Tutoring, Health Services and other Student Service areas. The activity card is also used to track student hours in lab-type classes, and to monitor access to college services. The Student Activity Card/ID is a worthwhile card to have, not only for easy access to Palomar services, but it also provides free lock and locker usage on campus, monthly Sprinter and Breeze Pass discounts, food giveaways, and discounted movie tickets. Great student discounts are also offered by many of our local businesses for students with a current activity card.

Associated Student Government (ASG)  
SU-102, Ext. 2689; SU-104, Ext. 3766  
Members of student government represent all students in the shared governance process of the College. The ASG Executive Officers are elected by students taking credit courses. ASG is the official means of communication between the students and other organizations of the College.

Student Participation in Governance  
The Palomar College governance structure provides for representation of students. Students are appointed to College committees by the Associated Student Government. For further information call 760-744-1150, ext. 2594, 2689, 3765 or 3766.

Inter-Club Council (ICC)  
SU-201, Ext. 2594  
The ICC is comprised of club representatives from all campus clubs and organizations. Students interested in starting their own club should contact the Office of Student Affairs located in SU-201. “New Club and Club Reinstatement” information can be found on our website at www2.palomar.edu/pages/studentaffairs/student-activities-office/ and copies are available in SU-201.

Student Health Centers  
HC Bldg. 760-891-7530  
Student Health Services provides easy access to initial primary care, acute illness and injury assessment and treatment, health education and wellness programs at the San Marcos campus and Escondido Center. Students, whom are currently enrolled and have paid the health fee (G.B. Policy 5030.3 under Tuition and Fees Schedule), are provided free of charge visits with a physician, nurse practitioner or registered nurse. Visits are mostly scheduled by appointments but also are available on an emergency/walk-in basis, as needed.

Fee services include: a variety of physical exams to include: athletic sports, medical programs admission (nursing, dental assisting, EMT, Paramedic, Firefighting and Police Academies), child development, DMV; immunizations (including TB testing); specialize exams/procedures (e.g. Pap, wart removal); specialized treatments (bandaging, respiratory treatment); limited prescription medications; vision and hearing testing and laboratory testing. Areas of service include respiratory, dermatology, gynecology, family planning, tobacco/nicotine cessation and limited emergency medicine.

Health education and wellness programs are offered through the year to promote and enhance healthy lifestyle choices and well-being. Typical programs offered are Sexual Responsibility Awareness, Breast, and Skin Cancer Awareness, Great American Smoke-out, Flu Vaccination (free to students), Alcohol and Drug Abuse Awareness, Healthy Heart Month, Stress Reduction, Healthy Mind/Suicide Prevention and Infectious Disease Awareness. Other community services provided on a quarterly basis include Blood Drive, Mobile Medical Van Services that includes Dental Screening, Mammogram, Women’s Health Services and Medical Insurance Enrollment Seminars.

The San Marcos Student Health Service Center is located in the HC Bldg., which is south of the NS building at the north end of the campus, with operational hours Monday-Thursday 8am-7pm and Friday 8am-3:30pm during the Fall and Spring semesters. Appointments can be made by calling 760-891-7530. The Escondido Student Health Service Center is located in the main building with Fall and Spring semester hours: Monday-Thursday 8am-12 noon; 4-8pm. Appointments can be made by calling 760-891-7532. The Student Health Service Centers webpage is www.palomar.edu/healthservices

Behavioral Health Counseling Services provides students, whom are currently enrolled and have paid the student health fee, short term counseling visits (free of charge) with a licensed Behavioral Counselor/Therapist. Typical counseling services provided include: assessment and treatment of anxiety and depression, substance abuse and addiction, emotional trauma, body image disorders, significant relationship and family conflicts, assessment and diagnosis of mental health disorders. The number of counseling sessions are determined by a clinical assessment and the BHCS counselor/supervisor. A “no show” fee of $5.00 will be charged for an appointment not attended or not cancelled prior to the scheduled appointment time.

Behavioral Health Counseling is available at the San Marcos campus in the Student NB Building, Room 2 and at the Escondido Center in the Student Health Clinic by appointment only (hours varied). Appointments for the San Marcos location can be made by calling 760-891-7531 and the Escondido Student Health Clinic at 760-891-7532. The Behavioral Health Counseling webpage is: http://www2.palomar.edu/pages/bhcs/home-page-2/services/

Student Success & Equity  
SSC-25, Escondido Education Center, Ext. 3624  
Starfish Early Alert  
Palomar College is dedicated to helping students meet their academic goals. Starfish is a student success “early alert” initiative at Palomar College designed to support students throughout their Palomar experience.

Students may receive emails or “alerts” through their Palomar email from professors. Alerts may include updates regarding course progress or referrals to key campus resources. Students are
encouraged to pay attention to these emails. The goal of this new alert system is to support the academic and personal success of students at Palomar College.

**Student Equity**

Palomar College has implemented a plan to positively impact students who are completing academic requirements at a lower rate than average students (disproportionately impacted groups). The 2015 update to our Student Equity Plan describes our commitment to address equity challenges, including targeted interventions, increased student support services, enhanced equity dialogue and continuous self-improvement of processes that support student success and equity. To read the complete plan, please visit the Student Success & Equity Council website at http://www2.palomar.edu/pages/ssec/.

**Student Success & Support Program (SSSP)**

The goal of the Student Success & Support Program (SSSP) is to increase access and success by providing students with core services to assist them in achieving their educational and career goals. Core services include a new student orientation, assessment exam, education planning, career assessment and follow-up counseling for students who are not sure what course of study to select. Services and support are delivered through various campus departments who work together to identify effective ways to help students succeed. To read the complete SSSP plan, please visit the Student Success & Equity Council website at http://www2.palomar.edu/pages/ssec/.

**Teaching & Learning Center Escondido**

ESC-500, Escondido Center, Ext. 8171

The Teaching and Learning Center (TLC) opened in Palomar College’s Escondido Education Center in August 2009. The TLC is a multi-functional space which provides a place for students to receive tutoring and to study, meet with other students or instructors, speak to a counselor, and/or attend workshops.

Designed to be a pleasant working space for students, the TLC has three study rooms where students can work in groups or meet with a counselor and/or faculty. Students who have used the TLC describe it as a pleasant and comfortable place to study and a place where they can receive any assistance they need. The TLC is located at the Palomar College Escondido Education Center, 1951 East Valley Parkway, Escondido, CA 92027.

Visit our website at www.palomar.edu/tlc/escondido.

**Teaching and Learning Center San Marcos**

TLC-100, San Marcos Campus, Ext. 3931

The San Marcos TLC (Teaching and Learning Center) is a state-of-the-art multi-functional space which provides students with ample study space, including a large central study area, three private study rooms, computers and a contemporary classroom designed to promote interactive and collaborative learning.

The Faculty Resource Center provides a place for faculty to discuss issues and share ideas to help students succeed (i.e. exploring and developing new teaching strategies, especially as they relate to our basic skills and at-risk student population, and participating in professional development activity offerings).

The TLC houses the First-Year Experience program, Summer Bridge, Learning Communities, Faculty Resource Center, and Village Mentoring. The TLC is located at the Palomar College San Marcos campus, 1140 West Mission Road, San Marcos, CA 92069. Visit our website at www.palomar.edu/tlc/sanmarcos.

**Transfer Center**

SSC-24A, Ext. 2552

The Transfer Center provides up-to-date information regarding successful transfer to all four-year universities.

Cross-enrollment processing, assistance with university applications, Transfer Admissions Guarantees (TAGs) to 6 UC universities and the opportunity to schedule appointments with visiting four-year representatives are some of the services available to assist students.

Students interested in transferring should plan in advance to understand the critical transfer and application procedures and filing periods. For information on transferring requirements, deadlines and forms, visit the Transfer Center website at https://www2.palomar.edu/pages/transfercenter.

**TRIO Programs**

Since 1965, America’s federally funded TRIO programs have been helping students from low-income families and first generation backgrounds to finish high school, succeed in college, and successfully graduate and/or transfer. These programs help assure that students from disadvantaged backgrounds have the support necessary to enter college and graduate and/or transfer to a four-year postsecondary institution.

There are eight federally-funded TRIO programs nationally, and four are hosted at Palomar College under Grant Funded Student Programs. These are Student Support Services, North County Educational Opportunity Center (NCEOC), Upward Bound, and Educational Talent Search. Visit our web site at www.palomar.edu/grants.

**TRIO/Student Support Services**

TCB-1, Ext. 2761

TRIO/Student Support Services at Palomar College is designed to provide support services to potential transfer college students and enhance their chances for successful completion as they pursue their baccalaureate degree.

In order to receive assistance through TRIO/Student Support Services, students must be enrolled at Palomar College, need the services of the program, and meet eligibility requirements. Program services include academic advising, tutoring, priority registration, personal, career and transfer counseling, college/university visits, student success workshops, financial aid information, and cultural events. All participants must be either low-income, first generation college, and/or disabled.

For further information call TRIO/SSS at 760-744-1150, ext. 2761, or email at trioss@palomar.edu or visit our web site at www.palomar.edu/trioss.
TRIO/North County Educational Opportunity Center
ST-26, Ext. 2434 or Main Lobby, Room 6, Escondido Education Center, Ext. 8110
The Palomar College North County Educational Opportunity Center (NCEOC) is a program funded by the U.S. Department of Education. NCEOC staff provides information and advising to qualified adults (low-income and/or first generation college) who want to enter or continue attending an adult school (GED program), community college (including ESL, vocational, certificate and degree programs), or other educational institutions (after high school).

The program's staff provides academic advisement, career advisement, financial aid information, access to postsecondary tutoring, test preparation, and workshops designed to support student success.

For more information about NCEOC eligibility or to volunteer or do an internship with the program, call (760) 744-1150, ext. 8110, or visit us at: www.palomar.edu/nceoc.

TRIO/Upward Bound
EC-4, Escondido Education Center, Ext. 8118
TRIO/Upward Bound at Palomar College helps 125 local area high school students be more academically successful in school, while preparing for higher education choices. Participants receive supplemental instruction and tutoring/mentoring in literature, composition, foreign language, mathematics, and science at Palomar College and after school, on Saturdays, and during the summer.

In order to participate in TRIO/Upward Bound, students must be enrolled in the following high schools: San Marcos, Oceanside, El Camino, Escondido, Orange Glen, San Pasqual, Vista, Rancho Buena Vista, and Fallbrook. Program services include academic/career advising, tutorial program, college admission assistance, financial aid information, study skills workshops, PSAT/SAT/ACT preparation, college campus visitations, educational/cultural trips, parent workshops, and a summer residential program.

The Upward Bound program hires Palomar College students and staff/faculty to serve as tutors, mentors, and Saturday instructors. Anyone interested should contact the UB office, 760-744-1150, ext. 8110, or visit us at: www.palomar.edu/upwardbound.

TRIO/Educational Talent Search
Escondido Education Center, EC-810, Ext. 8131
TRIO/Educational Talent Search at Palomar College helps 500 local area middle school and high school students be more academically successful in school, while preparing for higher education choices. Participants receive tutoring/mentoring and academic advising at Palomar College, after school, on Saturdays, and during the summer.

In order to participate in TRIO/Educational Talent Search, students must be enrolled in the following high schools: Mission Middle, Del Dios Middle, Hidden Valley Middle, Escondido High, or Orange Glen High. The program provides academic/career advising and financial aid and financial literacy information to its participants, and encourages them to graduate from high school and continue on and complete their postsecondary education.

The Educational Talent Search program hires Palomar College students and staff/faculty to serve as tutors, mentors, and Saturday instructors. Anyone interested should contact the ETS office, 760-744-1150, ext. 8131, or visit us at www.palomar.edu/ets.

Tutoring Resources
Locations and Services

Palomar College STAR Tutoring Center
LL-105, Library, 1st Floor, San Marcos Campus, Ext. 2448
In the Palomar College STAR Tutoring Center, located in LL-105, tutors are available for 30-minute tutoring sessions. The Tutoring Center provides tutoring in the following subjects: Math, English, ESL, Sciences, Business & Accounting, and Social Sciences. Hour-long appointments are available for EOPS and TRiO students.

Students are served on a walk-in basis, and must be registered for the course(s) for which they seek assistance. Visit our website for more information, www.palomar.edu/tutoring.

Math Learning Center (MLC)
MC-1, San Marcos Campus, Ext. 2718
Walk-in tutoring is available in all levels of mathematics. Enrollment in subject area (math) is required. Access to computers, GoPrint, calculators, study space, and usage of some textbooks in the Math Center is also available.

Room: MC-1, San Marcos campus, 760-744-1150, ext. 2718
http://www2.palomar.edu/pages/math/mlc/

Fall and Spring Hours: Monday through Thursday, 8 a.m. to 8 p.m., Friday, 8 a.m. to 2 p.m., Saturday 9 a.m. to 12 p.m.
Summer Session Hours: Monday through Thursday, 8 a.m. to 3 p.m.

English Department Writing Center
H-102, San Marcos Campus, Ext. 2778
The English Department Writing Center, located in room H-102, offers help with any phase of the writing process regarding assignments for any Palomar College class that students are enrolled in. To work with a Writing Tutor, call extension 2778 to make an appointment; walk-in students are also served as tutor availability allows. The Writing Center is open Monday-Thursday, 8:00 a.m. to 5:30 p.m., and Friday, 8:00 a.m. to 2:00 p.m. Writing tutors are also available at the Escondido Education Center TLC (call extension 8171 for exact hours). Visit our website for more information, www.palomar.edu/english/Writing_Center/.

ESL (English as a Second Language) Tutoring Center
H-222, San Marcos Campus, Ext. 4482
Tutoring in English as a Second Language (ESL) is available at the San Marcos and Escondido Education Center campuses. At San Marcos, tutors are available in H-222, Monday through Saturday (call ext. 4482 to schedule an appointment). At the Escondido Center campus, tutors are available for drop-in visits at the TLC, Monday through Thursday. ESL instructors interested in having a tutor in their classes can contact the ESL Tutoring Coordinator. For more information about ESL tutoring, call ext. 4482 (San Marcos) or ext. 8171 (Escondido), or visit our website, www.palomar.edu/esltutoring.
STEM (Science, Technology, Engineering, Mathematics)
Center
NS-312, San Marcos Campus, Ext. 2265
The STEM Center provides a variety of services including free tutoring, independent study space, specific STEM counseling and CSUSM STEM advising, computer use, access to pay-per-print station, laptops, and reference materials available for checkout. Tutoring is available for chemistry, earth science, engineering, life science, physics, and some math and other STEM courses. These services are available to all Palomar College students at no cost. Tutoring is offered on a walk-in, first-come, first-served basis.

Fall and Spring hours: Monday through Thursday, 8:00 a.m. - 6:00 p.m., and Friday, 8:00 a.m. - 3:00 p.m. Summer schedule will vary.

To find out more about our services and to see a copy of the tutoring schedule, please visit our website at www2.palomar.edu/stem/.

Teaching & Learning Center Escondido
ESC-500, Escondido Center, Ext. 8171
The Teaching and Learning Center (TLC) in Escondido provides free tutoring in Math, ESL, English/Writing and Spanish to all registered students of Palomar College. Tutors are available Monday through Friday. There is no need to make an appointment since all of our tutors can be seen on a walk-in basis. Simply stop by the front desk at the TLC and let one of the staff know that you need to see a tutor. The TLC is located at our Escondido Center at 1951 E. Valley Parkway, ESC-500, Escondido, CA 92027; phone: 760-744-1150, ext. 8171.

World Languages Resource Center (WLRC)
The World Languages Resource Center offers tutoring, language resources, and assistance to students studying Arabic, Chinese, French, German, Italian, Japanese, and Spanish. Enrollment in the subject area is required. The center is located in the Humanities Building, room H-125 on the San Marcos campus. For hours and information, please call 760.744.1150, ext. 2564 or visit: http://www.palomar.edu/worldlanguages.

Veterans’ Services
ST-52, Ext. 2173
The Veterans’ Services Office, located in the Student Services Center, provides information on veterans’ education benefits and services, and helps veterans, dependents and active duty military with applications and forms needed to collect their VA Education benefits.

The Veterans Support Center opened in Fall 2010 to students who are veterans of the armed forces. The Center provides a place for study, computer and printer use for class work, and a chance to hang out with other veterans. Information about Educational Benefits and counseling for post traumatic stress is also available. The Veterans Support Center is located in the Student Union Building in Room SU-22. For more information, access the Veteran Services webpage, www.palomar.edu/veterans/.

New students are required to:
1. Complete the Palomar College Application for Admission.
2. Select a major and make a counseling appointment with the Financial Aid/Veterans’ Academic Counselor to obtain an education plan.
3. Register for classes. Students are responsible for paying their registration fees (excluding Chapter 33).
4. Pick up a Veterans’ Services benefit package from the Veterans’ Office.

New students will submit the completed package, along with a copy of their education plan, to the Veterans’ Services office after they have registered in their classes.

Continuing students should contact the Veterans’ Office prior to the start of each semester to keep their VA payment coming for the next semester. It takes about eight to twelve (8 to 12) weeks for processing of VA Educational claims.

Students are paid VA benefits based on their attendance in classes, and must reapply to Veterans’ Services each semester if they wish to receive benefits. Students are required to choose a major and enroll in classes required for that major. Official transcripts from all previous schools, colleges, military training and CLEP tests must be submitted to the College for evaluation before the end of the students first semester of attendance.

Because all courses are not VA approved or payable, students should, prior to registering, contact the Veterans’ Advisor for review of their classes. Students cannot repeat most courses for VA pay, and must report all changes in their classes and units, including both adds and drops to the Admissions and Veterans’ Office. Questions regarding repeatability may be directed to the Veterans’ Services Office.

The above paragraphs do not include all information and requirements necessary to be eligible for services. Students are expected to view detailed information on department websites or to stop by the office for further discussion with a staff member.

California Veteran Dependent Exemption (Enrollment Fee Waiver)
The children and spouses of U.S. veterans with service connected disabilities or veterans who have died in service or from service connected disabilities may be eligible for waiver of College fees. The student must submit the VA letter of eligibility to the Financial Aid and Scholarships Office. The CA Veteran Letter will indicate the Enrollment Fee Waiver school year. The year begins with Fall, followed by Spring, and ends with Summer. Once a semester ends, there is no retro for the semester even if the letter is dated prior to the end of the semester or for the school year. For more information see the Veterans’ Services office.

ConAP Program
ConAP, a joint program between the Army and Palomar College, admits new soldiers to the College at the same time they enlist in the Army or Army Reserve. Army recruiters refer new soldiers to the College. Eligible soldiers are admitted, either on a full or provisional basis with enrollment deferred until completion of active military services. For more information contact the VSO or your local Army recruiter.
Servicemembers Opportunity Colleges Consortium
Palomar College is a member of the Servicemembers Opportunity Colleges (SOC) Consortium. The SOC Consortium consists of colleges and universities committed to expanding and improving voluntary postsecondary educational opportunities for servicemembers worldwide. SOC Consortium members subscribe to principles and criteria to ensure that quality academic programs are available to active-duty military students, their family members, and veterans. A list of current SOC Consortium member institutions can be found on the SOC website at www.soc.aascu.org/.

Palomar College provides academic assistance to active-duty personnel which includes program planning and guidance in understanding educational options, acceptance of traditional and nontraditional learning experiences, tutoring, or similar learning opportunities. Courses are offered in the evening, on weekends or other nontraditional time frames, and at the Camp Pendleton Marine Corps base.

SOC Degree Network System
Palomar College is a member of the SOC Degree Network System, a subgroup of SOC Consortium member institutions selected by the military Services to deliver specific associate and bachelor's degree programs to servicemembers and their families. As a member of the DNS, we have agreed to adhere to academic policies intended to support military students in their academic endeavors towards degree completion.

SOC operates the 2- and 4-year Degree Network System for the Army (SOCAD), Navy (SOCNAV), Marine Corps (SOCMAR), and Coast Guard (SOCCOAST). Palomar College is approved to offer SOCNAV and SOCMAR programs at the associate degree level. For more information, contact the Palomar College Camp Pendleton Center at 760-725-6626.
RIGHTS AND RESPONSIBILITIES
Section 4
Student Rights and Responsibilities

Each student is responsible for following the rules and regulations in this catalog. Furthermore, each student is responsible for his/her enrollment in classes and for attending classes. The College is not liable if the student fails to read and understand the rules.

Academic Accommodations for Students with Disabilities

The Palomar Community College District (PCCCD) is committed to all provisions of Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and Section 508 of the Rehabilitation Act of 1973. Students with verified disabilities who may require academic adjustments or auxiliary aids are advised to contact the Disability Resource Center (DRC). It is strongly recommended that students complete the intake process with a DRC Counselor well before classes begin to ensure timely provision of services. For further information regarding academic accommodation procedures, please contact DRC at 760-744-1150, ext. 2375 or visit our website at www.palomar.edu/drc. Questions regarding academic accommodations may also be directed to the College ADA Officer at 760-744-1150, ext. 2154.

Academic Integrity

The Center for Academic Integrity at Duke University® defines academic integrity as a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility. From these values flow principles of behavior that enable academic communities to translate ideals into action.

Palomar College is wholly committed to the idea and ideals of academic integrity. We embrace and adopt the definition and related principles of academic integrity provided by the Center for Academic Integrity stated in the paragraph above. Following are the explanations of the five principles as provided by the Center for Academic Integrity and adopted by Palomar College.

1. Honesty: Begins with oneself and extends to others. In the quest for knowledge, we must be honest with ourselves and with each other, whether in the classroom, laboratory, meeting, library, or on the playing field.

2. Trust: Only with trust can we believe in the research and efforts of others and move forward with new work. Only with trust can we collaborate with individuals, sharing information and ideas without concern that our work will be misappropriated or misused, our reputations diminished, or our academic careers harmed. Only with trust can our communities believe in the social and economic value and meaning of an institution's scholarship and degrees.

3. Fairness: Important components of fairness are predictability, clear expectations, and a consistent and just response to dishonesty. All campus constituencies have a role in ensuring fairness and a lapse by one member of the community does not excuse misconduct by another.

4. Respect: Demonstrated by attending class, being on time, paying attention, following instructions, listening to other points of view, being prepared and contributing to discussions, meeting academic deadlines, and performing to the best of our ability. Being rude, demeaning, or disruptive is the antithesis of respectful conduct. We show respect for the work of others by acknowledging our intellectual debts through proper identification of sources.

5. Responsibility: Shared responsibility distributes the power to effect change, helps overcome apathy, and stimulates personal investment in upholding academic integrity standards. Being responsible means taking action against wrongdoing, despite peer pressure, fear, loyalty, or compassion. At a minimum, individuals should take responsibility for their own honesty and should discourage and seek to prevent misconduct by others. Whatever the circumstances, members of an academic community must not tolerate or ignore dishonesty on the part of others.

* The Center for Academic Integrity is affiliated with the Kenan Ethics Program at Duke University in Durham, North Carolina.

Debts Owed to the College

Debts occur when a student fails to repay money borrowed from the College, violates a student financial aid contract, fails to pay tuition and/or enrollment fees, library fines, or bookstore charges. Debts also occur when the student fails to reimburse the College for a returned check, does not return or account for athletic equipment/uniforms, or fails to pay scheduled fees for other services provided by the College. This list of debts is not all inclusive and may include others not specifically listed. If a delinquent debt is sent to the Chancellor’s Office Tax Offset Program or another collection agency, a 33% penalty charge will be added to the balance owed.

Palomar College reserves the right to withhold all further services until the debt is paid in full. Grades and transcripts may be withheld until all financial obligations are cleared.

Drugs and Alcohol Policy

According to B.P. 3550, it is the policy of the Palomar Community College District to provide, maintain, encourage, and support a drug-free and alcohol-free campus. The commitment of this policy is to education, prevention, rehabilitation, and recovery. An alcohol-free and drug-free campus will promote the safety and health of students, employees, and the public.

All employees and students are clearly and expressly prohibited from the possession, being under the influence, or consumption of alcohol, illegal drugs, or controlled substances on campus, at any school-sponsored event, or while acting within the scope of employment.

The complete Code of Conduct may be found on the Student Affairs web page at: www2.palomar.edu/pages/studentaffairs/home/student-discipline/ and is also available in the Office of Student Affairs, SU-201.
FERPA and Privacy Rights of Students

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student’s education records within 15 working days of the day the College receives a request for access.

Under Section 76230 of the Education Code, current and formerly-enrolled students have an absolute right of access to their own records. One exception is that under Section 76231 of the Education Code, students may waive their right of access to confidential reference letters.

A student has access to review his/her own record by submitting a request directly to the Records Office. Palomar College will provide the opportunity to inspect and review the student’s record within 15 working days. Students may give permission to receive a personal transcript or have the transcript sent to another individual or institution. Parents of minor and non-minor students do not have access, except when written permission is received from the student.

2. The right to request the amendment of the student’s education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA.

Students may file written requests with the Admissions Office to correct or remove information recorded in their student records as described in the Administrative Procedure (AP 5045). Within 30 days of receipt of the request, the Admissions Office shall meet with the student and the employee who recorded the information in question, if any, if the employee is presently employed by the District. The Admissions Office shall then sustain or deny the allegations.

If the Admissions Office sustains any or all of the allegations, the subject information shall be corrected, removed, or destroyed as applicable. If the Admissions Office denies any or all of the allegations and refuses to order the correction or removal of the information, students, within 30 days of the refusal, may appeal the decision in writing to the Academic Review Committee for academic issues, the Financial Aid Appeals Committee for student financial aid record issues, or the Director of Student Affairs for disciplinary record issues.

A final appeal may be made to the Governing Board. The Governing Board shall, in closed session with the student and the employee who recorded the information in question, determine whether to sustain or deny the allegations. If the Governing Board sustains any or all of the allegations, it shall order the Superintendent/President or his/her designee, to immediately correct or remove and destroy the information. The decision of the Governing Board shall be final.

If the final decision is unfavorable to the student, the student shall have the right to submit a written statement of his/her objections to the information. This statement shall become a part of the student’s record until the information objected to is corrected or removed.

Whenever there is included in any student record information concerning any disciplinary action, the student shall be allowed to include in such record a written statement or response concerning the disciplinary action.

3. The right to provide written consent before the College discloses personally identifiable information from the student’s education records except to the extent that FERPA authorizes disclosure without consent.

No instructor, official, employee, or member of the Governing Board shall authorize access to student records to any person except under the following circumstances:

Student records shall be released pursuant to a student’s written consent.

“Directory information” may be released in accordance with the definitions in BP 22 5040 titled Student Records and Directory Information. Directory information is maintained which includes name, address, telephone number, date of birth, and class schedule information. Student degrees and awards may be publicized to recognize scholastic and athletic achievements in the school newspaper, or to the news media. Lists may be provided to other Palomar College departments or to colleges and universities for the expressed purpose of providing educational opportunities and financial assistance to students (names and addresses only).

Student records shall be released pursuant to a judicial order or a lawfully issued subpoena. Each student whose record is requested under a subpoena is notified in advance of compliance and will be offered an opportunity to introduce a motion to quash.

Student records shall be released pursuant to a federal judicial order that has been issued regarding an investigation or prosecution of an offense concerning an investigation or prosecution of terrorism.

The Federal Solomon Act requires colleges to release full directory information (including address) to U.S. Armed Forces.

Student records may be released to officials and employees of the District only when they have a legitimate educational interest to inspect the record.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

As provided for in the Act, a student’s personal information cannot be released to any other person without the written consent of the student. A photo identification will be required to access information. Official student records are kept in the Office of Admissions and Records. The Director, Enrollment Services has been designated “Record Officer,” as required by the Act.
Under Section 49061 of California Education Code, parents of community college students do not have a right of access to their children’s student records, regardless of whether the student is under the age of 18. Also, under federal law (Section 1232g of Title 20 of the United States Code), there is a general right of parental access to student records for grades K-12, but not for college students, regardless of age.

**Parking and Traffic Regulations**

**Parking Permits**
A permit from the College is required for all vehicles on District property 24 hours a day, seven days a week. The permit must be placed on the rear-view mirror when parked or, if you have a convertible, a decal may be affixed to the right rear bumper or right rear window and on the left front fork of motorcycles.

Permits may be purchased at the Cashier’s Office on the San Marcos campus and at the Palomar College Escondido Education Center Enrollment Counter. They may also be purchased online with a credit card via eServices at www.palomar.edu up to one week prior to the beginning of the semester. Once payment has been received and the mailing address confirmed, the permit will be mailed to the student. Online purchase of permits will continue after the mailing cut-off date three weeks into the semester; however, the permits must be personally picked up by the student at the Police Department located in Parking Lot 1, at the main entrance or at the enrollment counter at the Escondido Education Center. Semester permits are only valid from the date of purchase through the expiration date printed on the permits. Refunds for parking permits are granted during the first two weeks of each semester, and thereafter in cases of unusual circumstances which can be confirmed through appropriate documentation.

BOGW-eligible students may purchase a parking permit at a reduced rate. Only one discounted permit is allowed per semester. If a regular permit is purchased and the student becomes BOGW eligible at a later date, there will be no refund issued.

Students should only purchase a parking permit through authorized sales channels, and the re-sale of parking permits is prohibited. Students who purchase permits from unauthorized sellers may find themselves liable for possessing a stolen or counterfeit parking permit. Citations for using lost/stolen or counterfeit permits will be subject to a fine, and the offender may also be referred to the Office of Student Affairs for violation of the Student Conduct Code.

One-day permits may be purchased for $5.00 (fee is subject to change without further notice) from machines located in lots 3, 5, 9, and 12, on the main campus, and at the Escondido Education Center in lots 1 and 3 beginning in Fall 2013. Permit machines take $1’s, $5’s, and coins, as well as ATM or credit cards. Permits will be honored in student lots only.

A two-hour visitor permit and an emergency/temporary one-day (limited to one per semester) student permit may be obtained from the Campus Police Office and the Escondido Education Center’s Police Storefront. These permits are valid for the designated time period, in designated spaces/ lots only, and along the roadway where parking is authorized. Overnight parking is not allowed without prior approval from the College Police Department. Violators will be towed at owner’s expense and/or cited. Visitor spaces are available for general use, and require payment at the meters and accept coins, credit and debit cards. 4 hour maximum time limit.

**Citations**
The Police Department will issue citations to cars that do not display the appropriate parking permits if the cars are parked in spaces designated for handicapped, disabled students, Wellness Center, staff or visitors—this applies to all College parking lots at all times.

Vehicles receiving Palomar College citations have the same legal status as parking citations issued by any other law enforcement agency in California. C.V.C. (California Vehicle Code) and parking permit violations are enforced 24 hours a day/7 days a week. Citations may be satisfied by paying the fine (bail) within 21 days at the San Marcos campus Cashier’s Office or the enrollment counter at the Escondido Education Center. Bail will also be accepted by check or money order via U.S. mail (the citation must accompany the bail deposit). Credit card payments may also be made at pticket.com/ Palomar once the citation has been forwarded to the processing center. After 21 calendar days, unpaid citations become delinquent and a late fee equal to the amount of the fine may be assessed. All registered owners are responsible for the citations issued to their vehicle.

Palomar College Police Officers are not authorized to dismiss citations. A formal “Appeals Process” is in place. If you wish to appeal a citation, the forms are available on line at the Police/Parking web page at www.palomar.edu or at the Police Department. The violator shall request the appeal within 21 calendar days of the date of issuance.

Administrative Dismissal of one violation per calendar year may be granted for a “failure to display a valid parking permit” violation. You must show proof of purchase prior to issuance (date and time) of the citation. This request will be reviewed by Police Department staff and may be granted at that time. Administrative Dismissals apply equally to all students, faculty and staff members of the Palomar Community College District, and it applies to permit violations only.

For further information regarding citations or regulations, contact the College Police Department at 760-744-1150, ext. 2289 or view the department web page at www.palomar.edu/police.

**Police Department**
The Palomar Community College District Police Department was established by the Governing Board of the District effective August 28, 1998. The Palomar Community College District Police Department is a fully accredited and California POST certified police agency. The Police Department employs trained police officers whose authority is the same as all sworn peace officers in California. The Police Department will exercise the power to issue official citations for violations of the law, and in situations requiring it, may arrest violators, taking them into custody and booking them into San Diego County Jail located in Vista. Students and staff are advised to give all members of the Police Department their full cooperation and respect as they carry out their important duties to protect students, faculty and staff while seeking to provide a safe and secure environment on and near District property.
**Weapons on Campus**

Firearms or other weapons shall be prohibited on any District property or any facility used for District purposes except for activities conducted under the direction of District officials or as authorized by an official law enforcement agency. (BP 3530)

Firearms, knives with blades longer than 2 ½", explosives, or other dangerous objects, including but not limited to any facsimile firearm, knife, or explosive, are prohibited on all District property or any facility used for District purposes.

**The Clery Act: Right to Know**

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, or Clery Act requires higher education institutions to give timely warnings of crimes that represent a threat to the safety of students or employees, and to make public their campus security policies. It also requires that crime data be collected, reported and disseminated to the campus community and is also submitted to the Department of Education. The act is intended to provide students and their families, as higher education consumers, with accurate, complete and timely information about safety on campus so that they can make informed decisions by providing:

1. Policy Disclosure
2. Records Collection and Retention
3. Information Dissemination

Hard copies of the Clery Act are available at the Police Department offices located on the San Marcos campus and the Escondido Education Center, and are also available on the Police Department website at www.palomar.edu/police. The Clery Act Report is available to all prospective students and employees upon request. For further information on the Clery Act, please contact the Records Division of the Campus Police Department at 760-744-1150, ext. 3977.

**Title IX and Violence Against Women Act (VAWA)**

Title IX requires the college to designate a Title IX Coordinator to monitor and oversee Title IX compliance. The Coordinator is available to explain and discuss your right to file a criminal report (for example in cases of sexual violence); the College’s reporting process, including the investigation process; how confidentiality is handled; available resources, both on- and off-campus; and other related matters. If you are in the midst of an emergency please call the Police Department immediately at 760-891-7273.

VAWA includes the following violations:

**Sexual Assault:** Includes, but is not limited to, rape, forced sodomy, forced oral copulation, rape by a foreign object, sexual battery, or threat of sexual assault.

**Dating Violence:** Includes violence committed by a person who is, or has been, in a social relationship of a romantic or intimate nature with the victim. The existence of a romantic or intimate relationship will be determined based on the length of the relationship, type of relationship, and frequency of interaction between the persons involved in the relationship.

**Domestic Violence:** Includes felony or misdemeanor crimes of violence committed by:

- a current or former spouse of the victim;
- a person with whom the victim shares a child in common;
- a person who is cohabitating with, or has cohabitated, with the victim as a spouse;
- a person similarly situated to a spouse of the victim under California law; or
- any other person against an adult or youth victim who is protected from that person’s acts under California law.

**Stalking:** Engaging in a course of conduct directed at a specific person that would cause a reasonable person to fear for his or her safety, or the safety of others, or to suffer emotional distress.

The following process is to ensure victims of domestic violence, dating violence, sexual assault, or stalking receive treatment and information.

Any survivor of domestic violence, dating violence, sexual assault, or stalking shall be provided with information regarding options and assistance available to them. Information shall be available from the Palomar College Police Department, Human Resource Services, Student Affairs, Health Services, and Counseling Services offices. Who shall maintain the identity and other information about alleged sexual assault victims as confidential unless and until the Palomar College Police Department is authorized to release such information.

These areas shall provide all survivors of these crimes with the following, upon request.

- A copy of the District’s policy and procedure regarding sexual assault

**Services include:**

- Facilitate transportation to a hospital, if necessary
- Survivor Advocate and referrals to community resources.
- Notification to appropriate authorities, if desired
- A list of other available campus resources or appropriate off-campus resources.

A description of available services and the departments on campus available to provide or arrange those services if requested.

- Palomar College Police Department
- Health Services
- Office of Student Affairs
- Counseling Department and Survivor Advocates
- Human Resource Services
- Student Services Center
- Disability Resource Center

A description of each of the following procedures.

- Criminal prosecution
- Title IX reporting process
- Civil prosecution (for example lawsuit)
- District disciplinary procedures, both student and employee
- Academic Adjustments
- Tutoring, if necessary
### Student Rights and Responsibilities

**Palomar College Title IX Coordinator:**
Assistant Superintendent/Vice President of Human Resource Services, Room A-1, 760-744-1150, ext 2531

**Palomar College Police Department:**
1140 W Mission Rd, San Marcos, Main Entrance, 760-891-7273 or 760-744-1150, ext 2289

**Student Affairs:**
1140 W Mission Rd, San Marcos, Room SU-201, 760-744-1150, ext 2594

**Health Services:**
San Marcos Campus: 1140 W Mission Rd, San Marcos, HC Building, 760-744-1150, ext 2380
Escondido Education Center: 1951 E Valley Pkwy, Escondido, 500 Wing, 760-744-1150, ext 8105

**Counseling Services:**
San Marcos Campus: 1140 W Mission Rd, San Marcos, SSC Building, 760-744-1150, ext 2184
Escondido Education Center: 1951 E Valley Pkwy, Escondido, Student Services, 760-744-1150, ext 8109

**Off-Campus Resources:**
Women's Resource Center/Hotline, 760-757-3500, 24-hour hotline
Rape Crisis Center, 760-352-7273 (RAPE), 24-hour hotline
San Diego Domestic Violence Council, 888-385-4657 (DVLINKS), 24-hour hotline
Domestic Violence Hotline and Shelter Information, 760-633-1111, 24-hour hotline
Rape and Domestic Violence Hotline, 858-272-1767, 24-hour hotline
Battered Women's Shelter/Hotline, 619-234-3164, 24-hour hotline
Hidden Valley House, 760-747-6282, 24-hour hotline, English/Spanish

**Sexual Harassment Policy**

It is the policy of Palomar College in keeping with efforts to establish and maintain an environment in which the dignity and worth of all members of the College community are respected, that sexual harassment of students and employees is unacceptable conduct and will not be tolerated.

This policy applies to the unlawful harassment of any student on the basis of sex, gender, gender identity, gender expression, or sexual orientation by any employee of the District including, but not limited to, classroom conditions, grades, academic standing, scholarships, recommendations, employment opportunities, disciplinary action, or any other aspect of College life within the control of the District or its employees.

This policy also applies to the unlawful sexual harassment of any employee with respect to all terms and conditions of employment with the District, including but not limited to hiring, placement, evaluation, promotion, disciplinary action, layoff, recall, transfer, leaves of absence, training opportunities, compensation, work assignments, and hours of work, shifts, or workload.

Employees who violate this policy may be subject to corrective measures and to disciplinary action up to and including termination of employment. Students who violate this policy may be subject to corrective measure, including discipline, up to and including expulsion.

Sexual harassment is a violation of Title VII of the Civil Rights Act of 1964, Title IX of the Education Act Amendments of 1972, the California Fair Employment and Housing Act, the California Education Code Sections 210 through 214, inclusive, and the District's B.P. 3430 and A.P. 3430 Prohibition of Harassment.

The Assistant Superintendent/Vice President, Human Resource Services is responsible for administering this policy. All questions, concerns, and complaints regarding sexual harassment should be addressed to this position.

**Smoking Policy**

According to BP 3570, there shall be no smoking or use of tobacco-related products on Palomar Community College District property. The District shall provide and maintain a workplace and learning environment that is smoke and tobacco-free to promote the safety and health of students, employees, and the public. Smoking, vaping, and the use of tobacco products are prohibited on all indoor and outdoor property or in vehicles owned, leased, licensed or else otherwise controlled by the Palomar Community College District.

Products covered under this policy include, but are not limited to, cigarettes, cigars, pipes, hookahs, electronic smoking devices, chewing tobacco, spit tobacco, snus, snuff, and dissolvable tobacco products. The existing Student Code of Conduct is available online through the Student Affairs web page at www2.palomar.edu/pages/studentaffairs/home/student-discipline/, and is also available in the Office of Student Affairs, SU-201, or call 760-744-1150, ext. 2594.

**Student Behavior Rules and Regulations**

Students at Palomar College are responsible for regulating their own conduct and for respecting the rights and privileges of others. Palomar students are expected to conduct themselves in a manner compatible with the function of the College as an educational institution, and respect and obey all civil and criminal laws. Failure to abide by the standards as set forth by Palomar College is cause for disciplinary action.

Guidelines for student conduct are set forth in the California Education Code, California Administrative Code Title 5, policies of the Board of Trustees, and all civil and criminal codes. In compliance with California Education Code Section 66300, and 66301; ACCJC Accreditation Standards I.C.8 and 10 (formerly II.A.7.b) and in keeping with the above, regulations have been established to effectively and efficiently provide for the approved educational programs, approved student activities, and community services. For further information, contact the Office of Student Affairs, SU-201, or call 760-744-1150, ext. 2594.
**Student Code of Conduct**

Student conduct must conform to District and College rules and regulations. Student Discipline Procedures (AP 5520) provide a prompt and equitable means to address violations of the Standards of Conduct, which guarantees to the student or students involved the due process rights guaranteed to them by the California and United States Constitutions.

If a Student Code of Conduct violation occurs while a student is enrolled at Palomar College, he or she may be disciplined. The Standards of Conduct categories of behavior are not intended to be an exhaustive list, but are examples of causes and are good and sufficient causes for discipline, including but not limited to, verbal and written reprimand, removal from class, probation, short-term and long-term suspension or expulsion of a student. Other misconduct not listed may also result in discipline if good cause exists (Education Code, 76034). Whenever it has been determined that “good cause” exists for student discipline, the District shall notify the student in writing and/or district email. The student must attend a scheduled disciplinary hearing to ensure due process rights.

**Hearings/Holds**

Students failing to meet with the chief administrative officer or designee for a due process hearing will have an administrative disciplinary hold placed on their record until such hearing is conducted.

The Code of Conduct that details the standards is administered by the Director of Student Affairs. Also See BP 5030, titled Fees and BP 5130 titled Financial Aid, which addresses consequences of disciplinary action. The complete Student Code of Conduct is available in the Office of Student Affairs, SU-201, or on the Palomar College Student Affairs web page at www2.palomar.edu/pages/studentaffairs/home/student-discipline.

**Standards of Student Conduct (BP 5500)**

According to BP 5500 the following student conduct shall constitute good cause for discipline (academic, administrative or both) including but not limited to the removal, suspension or expulsion of a student, and applies to all students.

1. **Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty as defined by the Faculty Senate. Academic sanctions are the sole responsibility of the faculty member involved, further disciplinary sanctions are the purview of the Office of Student Affairs.**

2. **Causing, attempting to cause, or threatening to cause physical injury to another person including but not limited to sexual assault or physical abuse as listed in AP 3540 Sexual Assaults on Campus.**

3. **Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee, which is concurred in by the Police Chief.** See AP 3530 Weapons on Campus for further details.

4. **Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in California Health and Safety Code Sections 11053 et seq., an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.**

5. **Committing or attempting to commit robbery, burglary or extortion.**

6. **Causing or attempting to cause damage to District property or to private property on campus including but not limited to arson and vandalism.**

7. **Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.**

8. **Willful or persistent smoking or vaping in any area where these have been prohibited by law or by regulation of the college or the District.** (Refer to AP 3570 Smoking and/or Other Tobacco Use.)

9. **Committing sexual harassment as defined by law or by District policies and procedures.** (Refer to AP 3540 Sexual Assaults on Campus.)

10. **Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law.** See AP 3430 Prohibition of Harassment and BP 3410 Nondiscrimination for further details.

11. **Engaging in intimidating conduct or bullying on District-owned or controlled property, or at District sponsored or supervised functions through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyber bullying.** See AP 3430 Prohibition of Harassment and BP 3410 Nondiscrimination for further details.

12. **Willful misconduct that results in injury or death or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.**

13. **Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.**

14. **Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.**

15. **Failure to comply with directions of staff members of the District who are acting within the scope of their employment.**

16. **Engaging in physical or verbal disruption of administrative procedures, public service functions, authorized curricular, co-curricular, and extra-curricular activities or preventing authorized guests from carrying out the purpose for which they are on District property.**
17. Unauthorized entry upon or use of District facilities.

18. Lewd, indecent or obscene conduct or expression on District-owned or controlled property, or at District sponsored or supervised functions.

19. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on District premises, or the violation of lawful District regulations, or the substantial disruption of the orderly operation of the District.

20. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.

21. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any District policy or administrative procedure.

22. Violations of District policies and regulations, including, but not limited to, regulations and policies related to smoking/vaping on campus, parking or driving on campus, district computers, telecommunications, campus vehicles, and any and all other District equipment and policies and regulations related to student organizations and student and visitor symbolic expression.

**Consequences for Violations of the Student Code of Conduct.**

This section provides information regarding the possible consequences and/or sanction for violations of the Palomar College Student Code of Conduct, including incidents of academic dishonesty. Disciplinary sanctions may include:

- **A. Warning (verbal and/or written)**
- **B. Reprimand**
- **C. Removal by the Instructor:** Suspension by a District instructor for good cause from class for the day of suspension, and the following class meeting. The instructor’s decision is final, and may not be appealed. Instructors must notify the Office of the Director of Student Affairs when this sanction is utilized so that accurate records can be maintained, and repeat offenders will be identified. (California Education Code, Section 76032)
- **D. Suspension**
- **E. Expulsion**
- **F. Appeals**

The Director of Student Affairs, Department Chairpersons and Division Deans should be considered resource personnel for students and staff desiring additional information or assistance with this policy.

**Loss of Financial Aid**

In accordance with Education Code section 69810 a student who disrupts the peaceful conduct of the activities of the campus including but not limited to those listed above may become ineligible for state financial aid if found to be in violation of Standards of Student Conduct.

Students may contact the Office of Student Affairs or Governing Board Office if they wish to obtain a copy of specific Education Code sections.

**Student Grade Disputes**

According to Title 5, Section 55025, “The determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetency.” Students who wish to dispute a final course grade under the criteria listed above must follow the Student Grade Dispute Policy and Procedures, which can be found on the Office of Instruction website at www.palomar.edu/instruction/. All grade disputes must be initiated within one semester of the grade in question being issued.

**Student Complaints and Grievances Policy**

According to AP 5530, the Palomar Community College District authorizes students to start grievance procedures when the student believes that he/she has been subject to unjust action, or the denial of rights as published in District regulations, state law, or federal laws. Copies of AP 5530, Student Rights and Complaints, may be found on the Student Affairs web page at www2.palomar.edu/pages/studentaf/fairs/home/student-discipline/ and are also available in the Office of Student Affairs, SU-201. Grade disputes are not a part of the Student Grievance Policy. Please see Student Grade Disputes.

**Student Right To Know**

As a consumer, you have a right to know about your chances of college success. “Student Right-To-Know” (SRTK) refers to a Federally-mandated public disclosure of a college’s Completion Rate and Transfer Rate. The intent of SRTK is to provide to the consumer, a statistic of comparable effectiveness that they can use in the determination of college choice.

SRTK is a “cohort” study; that is, a group of students who are first-time freshmen who are enrolled full-time and are degree-seeking is identified in a fall term and their outcomes are measured over a period of time. The outcomes that the two SRTK rates measure are Completion (the total number of students in the cohort who earn either a degree, a certificate, or who successfully completed a two-year-equivalent transfer-preparatory program) and Transfer (the total number of cohort non-completers who were identified as having enrolled in another institution). The tracking period of the cohorts is three (3) years, at which time the SRTK rates are calculated and made public. See http://srtk.cccco.edu/index.asp for further information, as well as for specific college data.
ACADEMIC REGULATIONS & STANDARDS
Academic Policies

Academic Renewal

Palomar College is committed to meeting the educational needs of all its District citizens. Open entry encourages students of varied educational backgrounds to pursue their individual goals. Palomar's commitment to all students increases the likelihood of enrolling those who have failed in the past but who have shown their readiness to try again. To reduce the negative impact of past academic failure and to facilitate fair and equitable treatment of all students in pursuit of their academic goals, Palomar College supports Academic Renewal.

A student may petition for up to thirty (30) units of previous substandard (D, F, FW, NP/NC) course work attempted at Palomar College or any other institution to be disregarded when computing the grade point average (GPA). Academic Renewal is not allowed if course work to be disregarded has previously been used to fulfill degree, certificate, or transfer certification requirements.

Current and potential financial aid students are advised that all units attempted will count in the "total units attempted" limit for financial aid eligibility. Academic renewal does not eliminate units for financial aid purposes.

Procedures

• The student completes a Petition for Academic Renewal with a counselor's assistance. Forms are available from the Counseling Office, Records Office, or the Palomar Website.
• At least 50% of the units attempted in the term(s) under consideration must be substandard, the total GPA of which is less than 2.0; and must no longer reflect the student's current level of performance and capabilities.
• Two years must have passed since attempting the course work to be excluded from GPA calculation.
• The student must have successfully completed 24 semester units since the term(s) to be disregarded, either at Palomar or another regionally accredited college or university.
• The student must have a minimum 2.0 GPA since the time of attempting the course work to be disregarded.
• The petition will be reviewed by Records Office personnel for compliance with policy and procedures. The student will be notified by mail and/or email of the approval or denial of the request.

Academic renewal does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institution.

Students who have attempted more than thirty (30) units in the terms to be disregarded may submit a Student Petition to the Academic Review Committee for consideration.

Annotation of Permanent Record

It is important to understand that the student's permanent record (transcript), will be annotated in such a manner that all course work will remain legible, insuring a true and complete academic history. Academic Renewal actions are irreversible.

Attendance

Student Responsibility

The primary responsibility for class attendance and maintaining an accurate registration record rests with the student. Consequently, each student must process all adds or drops to their class schedule and is held responsible for the updating of their Official Study Schedule. To be officially recorded, adds and drops must be submitted by the appropriate deadlines (check deadline dates in the Class Schedule).

Students are expected to attend all sessions of a class in which they are enrolled. Anticipated absences should be reported to instructors in advance in order to complete assigned work by due dates. All other absences should be reported to instructors immediately upon returning to class and any missed course work should be made up.

If an emergency requires a long absence and the instructor cannot be reached, students should contact the instructor's department/office.

Faculty Responsibilities

Each faculty member is responsible for informing students in writing of the course content and grading system for each class within the first two class meetings. The instructor has the responsibility for maintaining accurate attendance records in accordance with established procedures.

Prior to the first census, instructors must drop any student identified as a no show (students who registered, but never attended class). An instructor may elect to drop a student for the following reasons: 1) excessive absences, normally defined as more than the number of times the class meets per week; 2) failure to take examinations; 3) failure to complete class assignments.

Auditing a Class

• Permission to audit a class is allowed at the discretion of the instructor, department chair, and division dean and requires all three signatures in that order.
• A student must provide an unofficial transcript or documentation that supports the rationale for auditing the course.
• An audit student shall not be permitted to change his/her enrollment in the course to receive credit.
• With the instructor, department chair, and division dean signed permissions, a student may enroll in a course for audit no earlier than the day after the last day to enroll without instructor permission, and no later than the end of the fourth week of class for semester-length classes (or prior to 30% of a short-term class).
• Credit students have priority over auditors. If a class closes after an auditor has been admitted, the auditor may be asked to leave to make room for the credit student. Instructor discretion is strongly recommended.
• The fee to audit a class is $15.00 per unit. Students enrolled in 10 or more units may audit 3 units free (may be 3 one-unit classes). The $15.00 per unit audit fee will automatically be assessed if the student drops below 10 units.
Basic Skills Course Limitations

Basic skills or pre-collegiate courses are designed to prepare students for college-level work. Students may be required to enroll in certain basic skills courses if the assessment process indicates they will benefit from this special preparation for college-level courses. A total of 30 units of courses numbered from 1 - 49 are allowed.

Any student who completes a total of 30 units in any combination will be notified and referred to a counselor for educational planning or exceptions to the limits. Basic skills courses may not be used to satisfy general education requirements for an associate degree.

Students who are financial aid recipients are reminded that only 30 units of remedial course work are excluded from the established unit limit for financial aid eligibility.

The following courses are excluded from the established unit limit for financial aid eligibility (up to 30 units): English 10; Mathematics 10, 15; Reading 10, 11; and ESL units below 50.

Correct Use of English

Clear and correct use of English, both on tests and on written assignments, is expected of all students.

All students, especially those planning to transfer to a four-year institution, are urged to take a course in English composition as soon as possible.

Credit by Examination

In order to permit students to demonstrate that they have met the objectives of a course through experience in the work place, foreign language proficiency, or some other process outside the conventional academic setting, students may earn credit by receiving a passing grade on an examination administered by the appropriate instructional department/program. The completion of Credit by Examination may require the demonstration of other skills or the completion of assignments in addition to an examination.

Not all courses listed in the catalog may be eligible for Credit by Examination. The determination of which courses in a discipline may be taken by examination is made by that department/program. The Department Chair/Director will determine whether or not a student requesting Credit by Examination is sufficiently well prepared to warrant being given this opportunity. This determination is based upon a review of previous course work or experience.

Students wishing to take a course through Credit by Examination are encouraged to informally discuss the matter with the Department Chair/Director and instructor prior to initiating the formal process.

Credit by Examination is not available to students who have previously received a substandard grade (D, F, FW) in the course they wish to challenge.

International Students (F-1 Visa) petitioning for Credit by Examination must be full-time, enrolled in 12 or more units (excluding the credit by exam course).

All steps must be completed in the order listed or the Petition for Credit by Examination shall not be processed. The Petition for Credit by Examination must be completed prior to the end of the current semester or session.

Determination of Eligibility to Take the Examination:

- The student must be currently registered in the District and in academic good standing
- The course is listed in the Palomar College Catalog
- No more than 15 units have been earned through Credit by Examination
- Not currently enrolled in the course to be challenged
- Not currently enrolled in, nor received credit for, a more advanced course in the same subject (may be waived by department)

Credits acquired by examination are not applicable to meeting such unit load requirements as Selective Service deferment, Veteran's Benefits, or Social Security Benefits.

Credits acquired by examination shall not be counted in determining the 12 semester hours of credit in residence required for an Associate degree.

Procedures:

- The student obtains a Petition for Credit by Examination from the Records Office.
- The student completes the Step 1 Student Information portion of the form and submits it to the Records Office for verification of eligibility. Once a grade basis has been selected it may not be changed.
- The Records Office verifies eligibility and grade basis selection, calculates the enrollment and/or non-resident fees, and places the petition in the pick-up box for the student. This process may take from 2-5 business days depending upon the time of the year.
- The student meets with the Department Chair/Director to receive approval for the petition. If approved, an instructor is assigned to administer the exam and the student makes arrangements to take the exam.
- The student takes the approved petition to the Cashier’s Office for payment of fees and receipt. Fees are non-refundable, regardless of the outcome of the exam. BOGW cannot be used for payment of credit by exam fees. Fees must be paid after department approval is granted and before the examination is administered.
- The student submits the approved petition to the instructor administering the exam. The instructor shall record the date of the exam and the grade received, attach the examination materials, and forward the completed petition to the Department Chair/Director.
- The Department Chair/Director will review and sign the petition and forward it to the Instruction Office. Completed examination materials must remain on file in the department/program for three years.
- The Instruction Office will assign a class number for the exam and forward the petition to the Records Office to be processed.
- The Records Office will post the course and assigned grade to the student’s record. The petition shall be retained in the Records Office.
Critical Thinking Statement
The major role of education in America is to produce an individual who can contribute to society as a well-informed member of a democracy. Competence in critical thinking empowers the college student with the ability to distinguish opinion from fact and belief from knowledge. Evaluative skills learned through elementary inductive and deductive reasoning have applications in problem solving in all aspects of everyday existence. Therefore, all examinations, assignments and activities at Palomar College should reflect academic rigor by requiring critical thinking on the part of the student.

Pass/No Pass (Credit/No-Credit) Grading
Pass/No Pass (P/NP) grading is available in the following options:
   • Courses in which all students are evaluated on a pass/no pass grading basis
   • Courses in which each student may elect to take the course on a pass/no pass grading basis

The decision to change to pass/no pass grading must be made by the end of the fourth week of a full semester course or by the first 30% of a short-term course, after which no other evaluative grade may be given. Application forms are available online or in the Admissions Office. The student must submit the form to the Admissions Office.

A student evaluated on the pass/no pass grading basis will receive both course credit and unit credit upon satisfactory completion of the course. Units attempted for which NP is recorded shall be disregarded provided that no additional repetitions have been recorded, the previous (no more than two) grade and non-evaluative (I, IP, RD, W, MW) symbols. An approved petition for an additional repetition may result in an evaluative grade.

Palomar College will allow course repetition to occur only under the following circumstances.

Repeatable Courses
Title 5 designates only the following types of courses as repeatable:
   1. Courses for which repetition is necessary to meet the major requirements of CSU or UC for completion of a bachelor’s degree;
   2. Intercollegiate athletics; and
   3. Intercollegiate academic or vocational competition.

Eligible courses may be repeated up to three times for a total of four enrollments. This limitation applies even if a student receives a substandard grade (D, F, FW, NP/NC) or non-evaluative (I, IP, RD, W) symbols. If a student receives a substandard grade and repeats a course, the grade received on a pass/no pass grading basis (reference repetition to alleviate substandard course work in non-repeatable courses).

Repetition to Alleviate Substandard Course Work in Non-Repeatable Courses
Most courses are not repeatable. Course repetition limits apply only to courses taken at Palomar College. Students who have substandard work from other institutions are allowed to attempt the course up to three times at Palomar College following the guidelines listed below.

First Attempt:
   • If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) the student may not enroll in the course a second time.
   • If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) at Palomar College the student may enroll in the course a second time.

Nothing can conflict with Education Code section 76224 pertaining to the finality of grades assigned by instructors, or with Title 5 or District procedures pertaining to the retention and destruction of student records.

Course repetition occurs when a student re-enrolls in a course for which they have previously enrolled (as defined above).

Enrollment and Course Repetition
Enrollment is defined as occurring when a student receives an evaluative (A, B, C, D, F, FW, P/CR, NP/NC) or non-evaluative (I, IP, RD, W, MW) symbol in a course.

“W” symbols are included in the maximum allowable enrollments. A student may not receive more than three W’s in a course. No more than three enrollments are allowed in any combination, excluding MW, of evaluative (A, B, C, D, F, FW, P/CR, NP/NC) and non-evaluative (I, IP, RD, W) symbols.

Eligible courses may be repeated up to three times for a total of four enrollments. This limitation applies even if a student receives a substandard grade (D, F, FW, NP/NC) or withdrawal (W) during one or more of the enrollments in such a course.

When a course is repeated under this provision, the grade received each time shall be included for purposes of calculating the student’s grade point average.

If a student repeats a repeatable course and a substandard grade has been recorded, the previous (no more than two) grade and credit will be disregarded provided that no additional repetitions are permitted beyond the enrollment limit of four.
Second Attempt:
• If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) on the second attempt, the student may not enroll in the course again. The student must submit a Grade Adjustment Form to prevent the first grade from being calculated in the grade point average. However, all grades will continue to appear on the transcript.
• If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) at Palomar College the student may enroll in the course a third time.

Third Attempt:
• If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) on the third attempt, the student may not enroll in the course again. The student must submit a Grade Adjustment Form to prevent the first and second grades from being calculated in the grade point average. However, all grades will continue to appear on the transcript.
• If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) on the third attempt at Palomar College the student may not enroll in the course a fourth time at Palomar College. Individual exceptions may be made only with documentation of extenuating circumstances.

Upon each repetition to alleviate substandard course work, the student must submit a Grade Adjustment Form to prevent the first and second substandard grades from being calculated in the grade point average. Upon submission of this form, only the most recent evaluative grade will be computed in the grade point average and annotated on the student's permanent academic record.

If a student repeats a repeatable course and a substandard grade has been recorded, the previous (no more than two) grade and credit will be disregarded provided that no additional repetitions are permitted beyond the enrollment limit of four.

No more than two substandard grades may be alleviated pursuant to this section.

Repetition Due to Significant Lapse of Time
A student may submit a Petition for Course Repetition form to the Evaluations Office to repeat a course in which a satisfactory grade was received and there has been a significant lapse of time of no less than three years since the grade was obtained.

The following circumstances apply to this provision:
1. A recency prerequisite exists for a course or program; or
2. Another institution of higher education to which the student seeks to transfer has established a recency requirement which the student will not be able to satisfy without repeating the course in question.

If a student has exhausted the number of permitted repeats in an active participatory course or an experience course that is related in content, one additional repeat may be approved by petition, with appropriate supporting documentation, due to significant lapse of time.

Upon repetition, the previous grade and credit will be disregarded in computing the grade point average and annotated on the student's permanent academic record.

Repetition Due to Extenuating Circumstances
A student may submit a Petition for Course Repetition form to the Evaluations Office to repeat a course (excluding repeatable courses) based on a finding that the student's previous grade (whether substandard or passing) was, at least in part, the result of extenuating circumstances.

Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. Appropriate supporting documentation must be submitted with the petition.

Upon repetition, the previous grade and credit will be disregarded in computing the grade point average and annotated on the student's permanent academic record.

Repetition of Cooperative Work Experience Education
A student may repeat a Cooperative Work Experience course in a given field any number of times provided the student does not exceed 16 units in any combination of general or occupational work experience, subject to the following limitations:
1. General Work Experience Education: A maximum of 6 units may be earned during one enrollment period (semester or session).
2. Occupational Work Experience Education: A maximum of 8 units may be earned during one enrollment period (semester or session).

When a cooperative work experience course is repeated, the grade received each time shall be included for purposes of calculating the student's grade point average.

Repetition of Disability Resource (DR) or Adaptive Kinesiology Classes for Students with Disabilities
A student may repeat a class for students with disabilities any number of times based on an individualized determination that such repetition is required as a disability-related accommodation for that particular student for one of the following reasons.

1. The student's continuing success in other classes is dependent on additional repetitions of a specific DR or Adaptive Kinesiology class;
2. The student needs additional repetitions of a specific DR or Adaptive Kinesiology class as preparation for enrollment into other classes; or
3. The student has an educational contract that involves a goal other than completion of the DR or Adaptive Kinesiology class in question and repetition of the course will further achievement of that goal.

Repetition to Meet a Legally Mandated Training Requirement
A student may repeat a course determined to be legally mandated by statute or regulation as a condition of paid or volunteer employment. Such courses may be repeated for credit any number of times.

Prior to enrolling, the student must submit a Petition for Course Repetition form for each repeat to the Evaluations Office with appropriate certification or documentation of the mandated training.
When a course is repeated to meet a legally mandated training requirement, the grade received each time shall be included for purposes of calculating the student's grade point average.

**Repetition Due to a Significant Change in Industry or Licensure Standards**

A student may repeat a course as a result of a significant change in industry or licensure standards such that repetition of the course is necessary for employment or licensure. Such courses may be repeated for credit any number of times.

Prior to enrolling, the student must submit a Petition for Course Repetition form for each repeat to the Evaluations Office with appropriate certification or documentation that there has been a significant change in industry or licensure standards necessitating course repetition.

**Enrollment Limitations**

**Non-Repeatable Courses**

Most courses are not repeatable. Course repetition limits apply only to courses taken at Palomar College. Students who have substandard work from other institutions are allowed to attempt the course up to three times at Palomar College following the guidelines listed below.

- If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) the student may not enroll in the course a second time.
- If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) at Palomar College the student may enroll in the course a second time.

**Repeatable Courses and Courses with Related Content**

According to Title 5, Section 58161, courses designated as repeatable and courses related in content may not exceed four enrollments. This limitation applies even if a student receives a substandard grade (D, F, FW, NP/NC) or W during one or more enrollments in such a course.

State guidelines limit the number of times students may take courses with related content and similar primary educational activities. Groups of courses that fall within these categories are listed in Section 8 of the catalog. Students are limited to one enrollment for each satisfactory grade, with no more than four total enrollments per group.

One additional enrollment may be permitted on an appeal basis due to Extenuating Circumstances or due to Significant Lapse of Time. Appropriate supporting documentation must be submitted with the Petition for Course Repetition form.

**Student Record Annotation**

The student’s permanent record (transcript) will be annotated in such a manner that all course work will remain legible ensuring a true and complete academic history.

A course may be repeated up to two times to alleviate a substandard grade.

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Units</th>
<th>Grd Pts</th>
<th>Units/GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 50</td>
<td>D</td>
<td>4.0</td>
<td>4.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>MATH 50</td>
<td>B</td>
<td>4.0</td>
<td>8.0</td>
<td>Included</td>
</tr>
<tr>
<td>MATH 60</td>
<td>F</td>
<td>4.0</td>
<td>0.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>MATH 60</td>
<td>D</td>
<td>4.0</td>
<td>4.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>MATH 60</td>
<td>FW</td>
<td>4.0</td>
<td>0.0</td>
<td>Included</td>
</tr>
<tr>
<td>MATH 60</td>
<td>Not allowed to enroll again</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

One additional enrollment may be granted on an appeal basis due to Extenuating Circumstances (excluding repeatable courses).

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Units</th>
<th>Grd Pts</th>
<th>Units/GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 100</td>
<td>D</td>
<td>4.0</td>
<td>4.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>ENG 100</td>
<td>C</td>
<td>4.0</td>
<td>8.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>ENG 100</td>
<td>B</td>
<td>4.0</td>
<td>12.0</td>
<td>Included</td>
</tr>
<tr>
<td>ENG 202</td>
<td>D</td>
<td>4.0</td>
<td>4.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>ENG 202</td>
<td>C</td>
<td>4.0</td>
<td>8.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>ENG 202</td>
<td>FW</td>
<td>4.0</td>
<td>0.0</td>
<td>Included</td>
</tr>
<tr>
<td>ENG 202</td>
<td>Not allowed to enroll again</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Courses within a related group are limited to one enrollment for each satisfactory grade, with a maximum of four total enrollments within the group.

**Drawing course group: ART 102, 103, 104, 213, 197F**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Units</th>
<th>Grd Pts</th>
<th>Units/GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 102</td>
<td>W</td>
<td>0.0</td>
<td>0.0</td>
<td>Included</td>
</tr>
<tr>
<td>ART 102</td>
<td>B</td>
<td>3.0</td>
<td>9.0</td>
<td>Included</td>
</tr>
<tr>
<td>ART 103</td>
<td>A</td>
<td>3.0</td>
<td>12.0</td>
<td>Included</td>
</tr>
<tr>
<td>ART 104</td>
<td>FW</td>
<td>3.0</td>
<td>0.0</td>
<td>Included</td>
</tr>
<tr>
<td>ART 104</td>
<td>Not allowed to enroll again</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 213</td>
<td>Not allowed to enroll</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 197F</td>
<td>Not allowed to enroll</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Musicianship course group: MUS 110, 111, 215, 216**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Units</th>
<th>Grd Pts</th>
<th>Units/GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 110</td>
<td>F</td>
<td>1.0</td>
<td>0.0</td>
<td>Excluded</td>
</tr>
<tr>
<td>MUS 110</td>
<td>A</td>
<td>1.0</td>
<td>4.0</td>
<td>Included</td>
</tr>
<tr>
<td>MUS 111</td>
<td>A</td>
<td>1.0</td>
<td>4.0</td>
<td>Included</td>
</tr>
<tr>
<td>MUS 215</td>
<td>D</td>
<td>1.0</td>
<td>1.0</td>
<td>Included</td>
</tr>
<tr>
<td>MUS 215</td>
<td>Not allowed to enroll again</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 216</td>
<td>Not allowed to enroll</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Repetition of Courses – VA Education Benefits**

**Repetition Due to Significant Lapse of Time (course taken at another institution)**

A student who is certifying VA Education benefits at Palomar College may petition to repeat a course in which a satisfactory grade was received at another institution and there has been a significant lapse of time of no less than three years since the grade was obtained.

The following circumstances apply to this provision before the repeated course can be certified for VA purposes:

1. An official transcript from the institution must be on file with the Records Office.
2. The course to be repeated is a prerequisite to a required course listed on the student’s educational objective on file in the Veterans Services Office.
3. A student attempting to repeat a Math or English course must have current assessment scores from Palomar College, placing the student into the applicable level, on file with the Veterans Services Office.

4. The student has met with an academic counselor who has advised repetition of the course by placing it on a current educational plan. The education plan must then be submitted to the Veterans Services Office.

Upon repetition, the previous grade and credit will be disregarded in computing the grade point average and annotated on the student’s permanent academic record.

If the course to be repeated was originally taken at Palomar College, the district’s policy for Repetition Due to Significant Lapse of Time will apply.

Grading and Transcripts

Student Responsibility
Each student is responsible for his/her registration of classes and for attending classes. Furthermore, each student is responsible for following the rules and regulations in this catalog. The College is not liable if the student fails to read and understand the rules.

Grading System
Grades are assigned by instructors based on class work and tests. The grades assigned are as follows:

<table>
<thead>
<tr>
<th>Evaluative Grades</th>
<th>Symbol</th>
<th>Definition</th>
<th>Grade Point Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Less than satisfactory</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>FW</td>
<td>*Failing for unofficial withdrawal</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>P</td>
<td>Passing (At least satisfactory - A, B, C grades) Units awarded not counted in GPA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NP</td>
<td>No Pass (Less than satisfactory, or failing - D or F grades. Units not counted in GPA)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*F (Failing) Awarded to students who complete the course but fail to achieve the course objectives
FW (Failing Withdrawn) Awarded to students who failed to withdraw from the course and who failed to participate in course activities through the end of the course

Non-evaluative Grades
Symbol: Definition
I Incomplete: Incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term.

The condition for the removal of the ‘I’ is stated on the Record of Incomplete (‘I’) Grade form. The ‘I’ is not used in calculating units attempted or for grade points. A final grade shall be assigned when the stipulated work has been completed and evaluated, or when the time limit for completing the work has expired.

The ‘I’ must be made up no later than one year following the end of the term in which it was assigned.

IP In Progress: The IP is used only in those courses which extend beyond the normal end of an academic term. It indicates that work is “in progress,” but that assignment of an evaluative grade must await its completion.

The IP symbol remains on the student record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and will appear in the student’s record for the term in which the course is completed. If a student receives an IP in an open-entry, open-exit course and does not re-enroll in the course, or fails to complete the course in the subsequent term, an evaluative grade must be assigned.

RD Report Delayed: The RD symbol may be assigned only by the Records Office. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of either the student or the Records Office. It is a temporary notation which will be replaced by a permanent symbol as soon as possible. An RD is not used in calculating the grade point average.

W Withdrawal: The W will not be used in calculating grade point averages, but excessive W’s will be used as factors in probation, dismissal, and re-enrollment. Students may not re-enroll in a course in which three W symbols have been recorded on their transcript. Withdrawals during the “no notation” period (see below) will not appear on a transcript.

Full Semester Courses: No notation (W or any other grade) is made on the student record for withdrawals during the first two weeks of a course.

Withdrawal between the second and eighth weeks is at the student’s discretion, and will result in a W grade recorded on the student’s permanent record.

Withdrawal after the eighth week is not permitted. An evaluative (A, B, C, D, F, FW) or Incomplete (I) grade will be assigned. Students who have verifiable extenuating circumstances may petition to withdraw.

Short Term (less than 16 weeks) Courses:
No notation (W or any other grade) is made on the student record for withdrawals during the first 20% of the course.

Withdrawal between 20% and 50% of a course is at the student’s discretion, and will result in a W grade recorded on the student’s permanent record.

Withdrawal after 50% of a course will result in an FW grade. At the end of the class, the instructor will assign an evaluative (A, B, C, D, F, FW) or Incomplete (I) grade. Students who have extenuating circumstances may petition to withdraw.
MW Military Withdrawal: Members of an active or reserve military service who receive orders compelling a withdrawal from courses will be permitted withdrawal at any time during the semester. Upon verification of such orders, the grade symbol MW will be assigned after the “no notation” period. The MW will not be counted in progress probation or dismissal calculations and will not have any adverse effect on the student academic record or enrollment status. Upon petition, the student will also receive a refund of the entire enrollment fee.

Conditions for Petition to Withdraw
Students who have verifiable extenuating circumstances may petition for an exception to withdraw from a class after the eighth week of a full semester course, or 50% of a short-term course. The student may petition the Director of Enrollment Services for authorization to receive a withdrawal (W) in the following manner:

- A formal petition must be submitted to the Director of Enrollment Services by the student, or the student's representative.
- Documentation of the extenuating circumstances being cited as reasons for withdrawal, or unsuccessful course completion, must be submitted.
- The instructor of each course in question must be consulted. In the event the instructor of record cannot be contacted, or is unavailable, the department chair will act on his/her behalf.

Palomar College defines extenuating circumstances as serious and compelling reasons which are limited to the following:

- Illness, hospitalization, or medical reasons
- Employment
- Relocation
- Illness or death of a family member or loved one
- Incarceration

All changes or modifications to a student’s record must be requested no later than three years from the semester in question.

Grade Changes
The instructor of the course shall determine the grade to be awarded to each student. The determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetence per Title 5, Section 55025. “Mistake” may include, but is not limited to, clerical errors and errors made by an instructor in calculating a student's grade. “Fraud” may include, but is not limited to, inaccurate recording or change of a grade by any person who gains access to student records without authorization.

Removal or correction of a grade shall only be done pursuant to Education Code Section 76232 or by an alternative method which will ensure that students receive a reasonable and objective review of the requested grade change. Provisions shall be made to allow another faculty member to substitute for the instructor if the student has filed a discrimination complaint, if the instructor is not available, or where the District determines that it is possible that there may have been gross misconduct by the original instructor. The Palomar College Student Grade Dispute Policy and Procedure is available on the Faculty Senate's web page and the Instructional Services web page, under Student Forms.

No grade placed in a student’s academic record may be changed unless the instructor submits a Grade Change form to the Records Office stating the reason for the change as listed above. All changes or modifications to a student’s record must be requested no later than three years from the semester in question. Registration records are maintained only for a three-year period.

Grades
Final grades are recorded on the student’s permanent record at the end of each academic term. Grades are available as soon as the instructor submits the roster and the Records Office posts it, usually about three weeks after the end of the class. Grades may be accessed online through MyPalomar. The College web address is http://www.palomar.edu.

Academic Achievement

Dean's List
A student's name may be placed on the Dean's List if the student completes in one semester at Palomar College a total of twelve (12) units with a GPA of at least 3.5 with no grade of D, F, or FW. Pass/No Pass classes are not considered as a part of the 12 units.

Phi Theta Kappa Honor Society
Phi Theta Kappa is an international honor society for two-year institutions, and the sister to the four-year institution's Phi Beta Kappa. The goal of Phi Theta Kappa is to recognize individual talents, needs, and goals.

Initial membership is awarded to those students who have completed a minimum of twelve (12) semester units at Palomar College with a grade point average of 3.5 or better. To sustain membership each student must maintain standards described in the Phi Theta Kappa Omega Rho Chapter Constitution and Bylaws, available in the Student Affairs Office, SU-201.

Students interested in becoming a member of Phi Theta Kappa should contact the Student Affairs Office, SU-201.

Probation, Dismissal, and Reinstatement
It is the intention of the Palomar Community College District to encourage matriculating students to make satisfactory academic progress toward their individual educational goals. Students taking courses for credit should do so with the intention of completing the course or courses with a passing grade. Students who do not make satisfactory progress are subject to probation or dismissal in accordance with established District procedures.

Standards for Probation
Academic and Progress Probation Levels 1 and 2 are calculated for the fall and spring semesters on the basis of the student's enrollment. Summer grades are included in overall calculations for the fall and spring semesters.

Probation 1 and 2 are posted on the student's permanent record. To remain in good standing at Palomar College, students must maintain a minimum cumulative grade point average (GPA) of 2.0 (C), and must complete more than 50% of the units in which they have enrolled.
Effective Fall 2014, loss of priority registration will occur for students placed on academic or progress probation level 2 for a second consecutive term, and will continue until the student is no longer on a probation status.

Effective Fall 2016, a student who has been on Academic or Progress probation for two consecutive terms will lose their eligibility for the Board of Governor’s Fee Waiver, and will not regain their eligibility until the student is no longer on a probation status.

**Academic Probation Level 1**

Students will be placed on academic probation 1 when they have:
- Attempted at least 12 graded units; and their
- Cumulative (overall) GPA falls below 2.0

**Academic Probation Level 1 Continued**

Students will be continued on academic probation 1 when:
- Cumulative (overall) GPA is below 2.0, and
- Semester (term) GPA is at least 2.0

**Progress Probation Level 1**

Students will be placed on progress probation 1 when they have:
- Attempted at least 12 units; and their
- Cumulative (overall) units with grades of W, I, NP, or NC reaches or exceeds 50% of all units attempted

**Progress Probation Level 1 Continued**

Students will be continued on progress probation 1 when:
- Cumulative (overall) attempted units with W, I, NP, or NC grades continue to be 50% or more of all attempted units; and
- Semester (term) attempted units with W, I, NP, or NC grades are below 50%

**Academic Probation Level 2**

Students will move to academic probation 2 if:
- Cumulative (overall) GPA is below 2.0, and
- Semester (term) GPA is at least 2.0

**Academic Probation Level 2 Continued**

Students will be continued on academic probation 2 when:
- Cumulative (overall) GPA is below 2.0, and
- Semester (term) GPA is at least 2.0

**Progress Probation Level 2**

Students will move to progress probation 2 if:
- Cumulative (overall) attempted units with W, I, NP, or NC grades continue to be 50% or more of all attempted units; and
- Semester (term) attempted units with W, I, NP, or NC grades are also at 50% or more of all attempted units

**Progress Probation Level 2 Continued**

Students will be continued on progress probation 2 when:
- Cumulative (overall) attempted units with W, I, NP, or NC grades continue to be 50% or more of all attempted units; and
- Semester (term) attempted units with W, I, NP, or NC grades are below 50%

Students on Probation 2 are required to meet with a counselor to complete an educational plan, and are expected to participate in prescribed strategies and/or support services. An enrollment hold will be placed on the student’s records blocking registration until they have met with a counselor.

**Removal from Probation Level 2**

A student on Academic or Progress Probation 2 shall be removed from probation when the student’s overall grade point average at Palomar College has improved to 2.0 or higher and their number of completed units reaches more than 50% of all attempted units.

**Standards for Dismissal**

For the purpose of dismissal, semesters shall be considered consecutive on the basis of the student’s enrollment, so long as a break in the student’s enrollment does not exceed one full primary term.

A student on dismissal status is ineligible to participate in any Palomar College classes or student activities until the requirements for dismissal have been fulfilled. Dismissal is posted on the student’s permanent record.

**Academic Dismissal**

A student who is on academic probation 2 shall be subject to dismissal if the student earned a cumulative and semester GPA below 2.0 in all units attempted in each of three consecutive semesters.

Students who begin the spring semester on academic probation 2 will be dismissed if they fail to achieve a minimum semester GPA of 2.0 at the end of the spring term.

**Progress Dismissal**

A student who is on progress probation 2 shall be subject to dismissal if the student’s cumulative and semester percentage of all enrolled units with W, I, or NP/NC grades reaches or exceeds 50% percent in each of three consecutive semesters.

Students who begin the spring semester on progress probation 2 will be dismissed if they fail to complete more than 50% or their spring semester course work with grades other than W, I, NP, or NC at the end of the spring term.

**Notification of Probation and Dismissal**

The Admissions and Records Office shall make every reasonable effort to notify a student of their academic standing within 30 days of the grade submission due date. A student removed from probation level 2 or reinstated after dismissal shall be notified as soon as possible.

**Reinstatement after Dismissal**

Students who have been dismissed for academic and/or progress reasons are eligible to return after one semester by petition to the Academic Review Committee. Students reinstated by petition return to the College on Probation Level 2, and must maintain a term GPA of 2.0, and/or successfully complete more than 50% of their term course work, to avoid returning to dismissal status. For further information, please stop by the Evaluations Office in the Student Services Center. Students who are dismissed lose their continuing student status and must re-apply to the College.

Students who believe their dismissal should be put aside after being notified must immediately petition the Academic Review Committee. Students must meet with a counselor to initiate the petition process. Petitions may be approved due to extenuating circumstances such as verified cases of accident, illness, or other circumstance beyond the control of the student.
Financial Aid Disqualification/Ineligibility
Current financial aid students will be disqualified from receiving financial aid if they fail to meet the Financial Aid Satisfactory Academic Progress Policy established by the Financial Aid, Veterans, and Scholarship Services Office in compliance with federal regulations. In addition, financial aid students will be disqualified automatically from receiving further financial aid when placed on Academic or Progress Probation Level 2 by the College.

Potential financial aid students who are placed on Academic or Progress Probation Level 2 by the College will be automatically ineligible for financial aid.

Students are advised that they may submit a Satisfactory Academic Progress (SAP) appeal to the Financial Aid, Veterans, and Scholarship Services Office. More detailed information on the Financial Aid Satisfactory Academic Progress Policy is also available on our web page, www2.palomar.edu/pages/fa/.

Title 38 Beneficiaries (VA Education Benefits) Disqualification/Dismissal
For a veteran/dependent student using VA Education Benefits (Title 38) who falls into academic (term and cumulative GPA falls below 2.0, upon attempting 12 cumulative units or more) probation for any semester or session (including summer), the Veterans’ Services Office is required to notify the Department of Veteran Affairs (DVA). If the cause for probation has not been removed at the end of three consecutive semesters or sessions (including summer session), the student would be ineligible for benefits for one semester at Palomar College and must follow the reinstatement policy.

Effective Fall 2014, loss of priority registration will occur for students placed on academic or progress probation level 2 for a second consecutive term, and will continue until the student is no longer on a probation status.

Title 38 Beneficiaries (VA Education Benefits) Reinstatement after Dismissal
Reference: U.S. Department of Veteran Affairs, School Certifying Official Handbook for VA Education Benefits; Section: Unsatisfactory Progress, Conduct, and Attendance - Recertification of VA Claimant

Veteran/dependent students who have been academically dismissed from Palomar College and wish to pursue reinstatement for VA Education Benefits must fulfill the following requirements.

1. The student must take a full term off from using VA Education Benefits at Palomar College.
2. The student must meet with a Veterans Counselor to get an updated education plan.
3. During or after the term taken off, the student must complete a petition to be reinstated for Education Benefits at Palomar College.
4. The student must submit the petition for reinstatement and an updated education plan to the Veterans Services Office. The Director of Veterans Services will review the petition, and approval or denial will be determined by the Director’s assessment of the student’s likelihood of attaining success in his/her educational objective.

5. If the petition is approved, the student will be allowed to certify VA Education Benefits after enrollment. If denied, the student has an opportunity to make an appointment with the Director for review of the decision.
6. If the student’s term GPA falls below 2.0 in any future term after reinstatement, the student will be dismissed indefinitely from using VA Education Benefits at Palomar College.

Please check with the Veterans Services Office for details.

Official Transcript and Verification of Enrollment
The transcript is a duly certified record of all work completed or attempted by the student at Palomar College. Official transcripts may be requested through eServices, in person, or by mail. The first two transcripts ever issued to/for the student are furnished free of charge upon request.

Verifications of enrollment may be requested through the Records Office.

Rush requests are processed within two (2) business days upon receipt of written request for both pick-up and mail service. Refer to Section 2, Fees and Expenses, Transcript Fees, or see the Transcript web page, http://www2.palomar.edu/pages/enrollmentservices/transcripts, for more information.

High school and college transcripts which are submitted by other institutions to the Records Office become the property of Palomar College and are not forwarded to other institutions, nor released to the student. Transcripts are sent only upon the written request of the student. Seven to ten (7-10) business days are generally required for normal processing of transcripts. We cannot insure delivery of transcripts to the recipient. You will be charged for each transcript processed according to our rates.

Transfer Credits from Other Sources
Palomar College is not the custodian of transcripts/test scores from other institutions. When a student has never applied and we have no record of attendance, transcripts/test scores from other institutions will be purged and the student must re-submit upon application for admission.

Credit from Other Colleges
It is the policy of Palomar College to grant credit for most courses taken at regionally accredited (Associations of Colleges and Schools) institutions of higher learning. Credit earned at a time when an institution was a candidate for accreditation may be accepted. Official transcripts must be on file with the Records Office to have transfer credit course work applied to Palomar degree, certificate, or transfer evaluations. Hand-carried official copies of transcripts are accepted provided they are received in sealed envelopes.

Transfer credits from institutions using the quarter system shall be evaluated as follows: each unit of work at a quarter system is equivalent to two-thirds of a semester unit (i.e., 3 quarter units equals 2 semester units).
Non-Traditional Credit
Non-traditional credit may be used to satisfy general education, elective, or major course requirements. A maximum combined total of 48 non-traditional units will be granted. Palomar College will not grant non-traditional credit for non-degree applicable course work.

Advanced Placement (AP) Examination Program
The California Community College System, the CSU System, and the UC System all award credit for Advanced Placement (AP) Exams. Palomar College grants credit toward its Associate degrees and CSU GE and IGETC certification patterns to high school students who attain scores of 3, 4, or 5 on the Advanced Placement Examinations of the College Board.

Students may earn a minimum of 3 semester units of credit for each AP exam satisfactorily passed. Access the Advanced Placement Program Guide on the Articulation website, http://www2.palomar.edu/pages/articulation/ap-ib-clep-and-dantes/, to identify how AP exam credit can be applied. See a counselor for specific information regarding AP exam placement and credit awarded. Students intending to transfer to a four-year institution should consult a counselor or the individual university regarding its AP credit policy.

To receive credit, students must submit an official AP transcript to the Records Office. For information on obtaining a transcript, contact the College Board. Information is available on the web at http://www.collegeboard.com.

Career Technical Education (CTE) Transitions Program
The CTE Transitions program (formerly known as the Tech Prep Program) is a technical and academic preparation program that enables high school students to prepare for a career and college at the same time. Students can even earn college credits while still in high school!

CTE Transitions is a bridge that connects learning to careers. It is designed to help students gain academic knowledge and technical skills, whereby they can earn college credit for their secondary (high school) course work through the completion of articulated courses. Programs are intended to lead to an associate degree or a certificate in a specific career field, and ultimately, to high wage, high skill employment or advanced postsecondary (college) training.

Through the Credit by Examination process, high school students may receive credit at the college level for some articulated courses. Palomar College awards college credit to high school students who earn an A or B in career-related, articulated high school course work and who pass an exam approved and/or conducted by Palomar College faculty. An articulated course is one in which the high school teacher and Palomar College faculty have formally agreed that the high school’s course outline, syllabus, textbook, and final exam are comparable to those in a course of the same major at Palomar College.

For more information about the CTE Transitions high school course articulation program, contact the Palomar College CTE Transitions office in AA-134 or at 760-744-1150, ext. 2692 for any additional information.

College Level Examination Program (CLEP)
Palomar College grants credit for successful completion of certain CLEP examinations to students who attain satisfactory scores. Access the CLEP Program Guide on the Articulation website, http://www2.palomar.edu/pages/articulation/ap-ib-clep-and-dantes/, to identify how CLEP credit can be applied.

Students may earn a minimum of 3 semester units of credit for each exam satisfactorily passed. See a counselor for specific information regarding CLEP placement and credit awarded. Students intending to transfer to a four-year institution should consult a counselor or the individual university regarding its CLEP credit policy.

To receive credit, students must submit an official CLEP transcript to the Records Office. The University of California does not award units for CLEP. CLEP credits do not apply toward IGETC requirements. For information on obtaining a transcript, contact the College Board. Information is available at http://www.collegeboard.com.

Defense Activity for Non-Traditional Education Support (DANTES) Examination Program
Palomar College may award credit for successful completion of certain DSST (DANTES Subject Standardized Test) exams to students who attain satisfactory scores. Access the DANTES Program Guide on the Articulation website, http://www2.palomar.edu/pages/articulation/ap-ib-clep-and-dantes/, to identify how DANTES credit can be applied to the Associate degree. See a counselor for specific information regarding DSST placement and credit awarded.

The College is guided by the credit recommendations of the American Council on Education (ACE). To receive credit, students must submit an official DANTES transcript to the Records Office. For information on obtaining a transcript, visit the DANTES website. Information may be found at http://www.dantes.doded.mil under Examination Programs.

Foreign Course Work
Students who have satisfactorily completed course work from a foreign nation’s appropriately accredited university may be able to apply those course credits toward an Associate degree at Palomar College. Course work must first be evaluated by an approved credentials evaluation agency and then reviewed by Palomar’s Evaluations Office. Some course work may also require approval by Department Chairs.

To have foreign course work credits evaluated, students should contact one of the approved credentials evaluation agencies. A list is available in the Evaluations Office. Request a detailed equivalency report that indicates - for each course - whether it is an upper- or lower-division course, it’s U.S. semester equivalency, and the grade the student earned. The Evaluations Office will determine how course work will be applied to requirements. Palomar College will not determine course transferability to other colleges and universities.

Please note foreign course work will NOT satisfy general education requirements for English composition and oral communication courses.
International Baccalaureate (IB) Examination Program
Palomar College may award International Baccalaureate (IB) Examination credit toward the Associate degree, or for CSU GE or IGETC transfer certification, to high school students who attain an appropriate score on Higher Level exams. Access the IB Program Guide on the Articulation website, http://www2.palomar.edu/pages/articulation/ap-ib-clep-and-dantes/, to identify how IB exam credit can be applied.

See a counselor for specific information regarding IB exam placement and credit awarded. Students intending to transfer to a four-year institution should consult a counselor or the individual university regarding its IB credit policy for major course work.

To receive credit, students must submit an official IB transcript to the Records Office.

Military Service Schools
Palomar College may award credit for schools and training completed while in the military. Typically, credit awarded is applied only toward the Associate degree, usually as elective units. However, completion of Basic/Recruit Training will meet the Health and Fitness requirement for the Associate degree, and will meet Area E requirements for both Associate Degree GE and CSU GE.

Students may earn semester units for military schooling and training. Credit is awarded for work satisfactorily completed at the lower-division baccalaureate and associate degree levels only. Students intending to transfer to a four-year institution should consult with the individual university regarding its military credit policy.

To receive credit, students must submit an official transcript to the Records Office. These may include the following: Joint Services Transcript (JST); Sailor/Marine American Council on Education Registry Transcript (SMART); Army and American Council on Education Registry Transcript Service (AARTS); Community College of the Air Force (CCAF) transcript; Coast Guard Institute (CGI) transcript; official transcripts from DANTES/USAFI; or verified copies of DD214 or DD295 military records.

Religious Course Work
Palomar College will not accept any course, even from a regionally accredited institution, that promotes a specific religious doctrine. Courses with a broad philosophical perspective will be accepted.

Examples of courses which may be appropriate for general education include The Bible, The New Testament, The Koran, and The Torah, as long as the treatment of these topics is academic and stresses these books as literary works in an historic or philosophic way.

We will not accept courses that are taught from a specific doctrinal perspective or which attempt to proselytize. Examples of courses which are not appropriate for general education include Preparing for a Mission, The Baptist Ministry, and Living as a Christian. Courses which by title may not appear as faith-based may still be unacceptable if the description includes dogma.

U.S. Air Force ROTC Program
The Air Force Reserve Officer Training Corps (ROTC) is a three or four year program designed to equip students with leadership skills and commission officers for tomorrow’s Air Force. Required course work includes lectures, a leadership laboratory practical component, panel discussions, dialogues, problem solving, and physical training. All course work is completed on-site at or near San Diego State University (SDSU), with the exception of a four-week summer Field Training encampment conducted on a military base between the second and third year.

Palomar College does not have an ROTC program; however, under the provisions of a special agreement, students may participate in the ROTC program at SDSU. Students may enroll and attend ROTC classes at SDSU by contacting the SDSU Aerospace Studies Department at (619) 594-5545. Scholarships may be available for qualified cadets. The credits in these classes may be transferred as electives to meet degree requirements. Upon successful completion of the program and all requirements of a bachelor’s degree, cadets are commissioned as Second Lieutenants and serve a minimum of four years of active duty in the Air Force.
Section 6
Graduation Information

Associate Degree Requirements
Certificate Requirements

Palomar College provides occupational as well as general education for the student who plans to complete formal education at the community college level. In addition, the College provides lower division requirements in general education and in preprofessional majors for those students who plan to transfer to upper division colleges and universities.

To assist the student in educational planning, this section of the catalog describes the graduation requirements for the Associate Degree, the Certificate of Achievement, the Certificate of Proficiency, and the Noncredit Certificate of Completion.

General Education/Institutional Student Learning Outcomes

The General Education Program at Palomar College promotes competence in various fields of knowledge, provides an academic foundation for lifelong learning, and enriches students' lives. As a result of the general education experience, students will demonstrate:

Knowledge of Human Cultures and the Physical and Natural World through
• Study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts
• Focused by engagement with big questions, both contemporary and enduring

Intellectual and Practical Skills, including
• Inquiry and analysis
• Critical and creative thinking
• Written and oral communication
• Artistic perception
• Quantitative literacy
• Information literacy
• Digital literacy
• Teamwork and problem solving
  Practiced extensively, across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance

Personal and Social Responsibility, including
• Civic knowledge and engagement—local and global
• Intercultural knowledge and competence
• Ethical reasoning and action
• Foundations and skills for lifelong learning
  Anchored through active involvement with diverse communities and real-world challenges

Integrative Learning, including
• Synthesis and advanced accomplishment across general and specialized studies
  Demonstrated through the application of knowledge, skills, and responsibilities to new settings and complex problems

General Education/Institutional Student Learning Outcomes and Course Student Learning Outcomes are also available at http://www2.palomar.edu/pages/slo/

Associate Degrees

Palomar College currently offers an Associate Degree in Arts (AA), an Associate Degree in Science (AS), an Associate Degree in Arts for Transfer (AA-T), and an Associate Degree in Science for Transfer (AS-T). A detailed listing of degree options are in Section 8 of this catalog titled “Credit Courses and Programs”. Official transcripts from all previous institutions attended must be on file with the Records Office.

Associate Degree Requirements

I. Minimum Units

The Associate degree requires completion of a minimum of sixty (60) degree-applicable semester units. Courses numbered 1-49 do not count in the sixty (60) units toward the degree. (See the Course Numbering System and Transfer Identification listing.)

II. Grade Point Average (GPA)

Maintain a cumulative grade point average of 2.0 (‘C’ average) or higher for all degree-applicable course work attempted. Some specific programs may require a higher grade point average. Refer to the individual Programs of Study for further information. In calculating a student's degree applicable grade point average, grades earned in non-degree applicable courses, numbered 1 – 49, will not be included.

III. Residency

Complete a minimum of twelve (12) degree applicable semester units in residence as an officially enrolled student at Palomar College.

IV. Major

There are three Associate degree options, University Studies, General Studies, and Specified Palomar Major. The District and General Education Requirements listed under V and VI apply to all options.

Option 1: University Studies

An Associate degree that provides completion of a general education transfer pattern including many, if not all, lower-division major preparation requirements for students transferring to either the California State University or University of California System. Students may select from ten emphases based on their transfer major.

Requirements

1. Associate Degree District Requirements.
2. Associate Degree General Education Requirements.
3. A University Studies Emphasis selected from the ten options listed under University Studies in Section 7. All courses within the major must be completed with a ‘C’ or better.
4. Electives, if needed, to obtain a minimum of 60 degree-applicable units.
Option 2: General Studies
Study in general education providing maximum flexibility in program
design leading to an Associate Degree. Students planning to transfer
to a four-year institution are cautioned that this curriculum may
not provide for completion of the lower division requirements for
transfer to a four-year institution.

Requirements
1. Associate Degree District Requirements.
2. Associate Degree General Education Requirements.
3. A General Studies Emphasis selected from the three
   options listed under General Studies in Section 7. All
courses within the major must be completed with a ‘C’ or
   better.
4. Electives, if needed, to obtain a minimum of 60 degree
   applicable units.

Option 3: Specified Palomar Major
Provides study in general education and an Associate degree major
designed as preparation for the workplace. Students planning to
transfer to a four-year institution may need to meet additional
requirements.

Requirements
1. Associate Degree District Requirements.
2. Associate Degree General Education Requirements.
3. Specific Major Requirements as outlined in the program
   offerings. All courses within the major must be completed with
   a ‘C’ or better.
4. Electives, if needed, to obtain a minimum of 60 degree
   applicable units.

Contact the Counseling Center at 760-891-7511, to request an
appointment with a counselor for further information about any
of the three Associate degree options. Official transcripts from all
institutions previously or concurrently attended must be on file with
the Records Office.

V. District Requirements
1. Competence in Reading and Written Expression
   Demonstrated by course completion or examination.

   Course Completion:
   English 100 with a grade of ‘C’ or better.

   Examination:
   AP: Minimum score of 3 on the English: Language &
   Composition, or the English: Literature & Composition
   exam

2. Competence in Mathematics
   Demonstrated by course completion or examination.

   Course Completion:
   Mathematics 56 or 60 with a grade of ‘C’ or better.

   Examination (acceptable tests and scores listed below):
   Palomar College Assessment Test:
   Accuplacer (Back-up Test): Minimum Score of 61 on the
college level section.

National Exams
ACT: Minimum score of 23 on the mathematics section
AP: Minimum score of 3 on the Calculus AB, Calculus BC,
or the Statistics exam
CLEP: Minimum score of 50 on an approved CLEP
mathematics examination. See a counselor for a list of
approved examinations.
SAT: Minimum score of 550 on the mathematics section

3. Competence in American History and Institutions/
   California Government
   Demonstrated by course completion or examination.

   Complete one Palomar course (or an equivalent) or
   AP/CLEP/SAT Subject exam from each of the three US
   components, except where two courses are listed as
   fulfilling the area together. A grade of “C” or better is
   required for course work. Courses listed in more than one
   area can meet multiple components (e.g. HIST 102 meets
   US-1 and US-3). Minimum exam scores are listed with each
   approved exam. See ASSIST.ORG for up to date approvals.

   US-1: The historical development of American institutions
   and ideals (100 years of U.S. history).
   Africana Studies 101
   Africana Studies 102
   American Indian Studies 101
   American Indian Studies 102
   Chicano Studies 101
   Chicano Studies 102
   History 101
   History 102
   History 140
   History 141
   Political Science 101 (F16)
   Religious Studies 102 [F08]
   AP Exam (Score of 3): U.S. History
   CLEP (Score of 50): History of the U.S. I
   CLEP (Score of 50): History of the U.S. II
   SAT Subject Test (Score of 550): U.S. History

   US-2: The Constitution of the United States and the
   operation of representative democratic government.
   Africana Studies 101
   American Indian Studies 101
   Chicano Studies 101
   History 101
   History 140
   Legal Studies 240 (F16)
   Political Science 101, 102, 240 (F16)
   AP Exam (Score of 3): U.S. Government & Politics

   US-3: The process of California state and local
   government.
   Africana Studies 102
   American Indian Studies 102
   Chicano Studies 102
   History 102
   History 141
   Political Science 102
   Political Science 120 (F09)
Students who have completed course work outside California should consult with a counselor to ensure completion of the three required components.

4. Competence in Health and Fitness

Demonstrated by course completion, examination, or U.S. military service.

**Option I**

**Course Completion (Select A or B)**

Courses need not be taken concurrently, but must be completed with a grade of ‘C’ or better:

A. Health 100 **and**

One approved fitness activity course:

ACS 100-level Intercollegiate Sport **or**

HE 100L **or**


Fire 151 **or**

Completion of Police Academy

B. Equivalent lecture **and** fitness activity course work.

**Approved lecture courses** (minimum of 9 units):

HE/FCS/NUTR 165, **or**

BIOL/FCS/NUTR 185, **and**

PSYC 100 **and**

BIOL 100 or 101 or 102 or 105 or 106, **or**

**Approved fitness activity courses** (minimum of 1 unit):

ACS 100-level Intercollegiate Sport **or**

HE 100L **or**


Fire 151 **or**

Completion of Police Academy

**Option II**

**Competence Examination** (acceptable tests and scores listed below):

**Written Exam:**

Achieve a minimum score of 70% (currently 179 out of 225) on the Palomar College written test covering principles of nutrition, first aid, cardio-vascular fitness, flexibility, anatomy and physiology, substance abuse, sexually transmitted diseases, and other health-related topics as listed in the Course Outline of Record. This test may be taken only one time in a 3-year period. Contact the Health, Kinesiology, and Recreation Management Department for the testing schedule.

**Fitness Exam:**

**NOTE:** Applies only to students who have successfully passed the written exam.

Participate in a 12-minute run, 20-minute swim, or 30-minute stationary bike test. Students with physical limitations may be required to obtain a physician’s approval to take the test.

**Jogging (12 minutes)**

<table>
<thead>
<tr>
<th>Age</th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 30</td>
<td>6 1/2 laps</td>
<td>5 1/2 laps</td>
</tr>
<tr>
<td>30 – 39</td>
<td>5 3/4 laps</td>
<td>4 3/4 laps</td>
</tr>
<tr>
<td>40 – 49</td>
<td>4 1/4 laps</td>
<td>3 laps</td>
</tr>
<tr>
<td>50 and over</td>
<td>3 3/4 laps</td>
<td>2 3/4 laps</td>
</tr>
</tbody>
</table>

**Swimming (20 minutes)**

<table>
<thead>
<tr>
<th>Age</th>
<th>Men and Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 40</td>
<td>1/2 mile</td>
</tr>
<tr>
<td>40 and over</td>
<td>1/2 mile (no time limit)</td>
</tr>
</tbody>
</table>

**Stationary Bike Test (30 minutes)**

Warm-up 5 minutes at 100 watts*, test 20 minutes at required watt output, cool down 5 minutes at 100 watts.

<table>
<thead>
<tr>
<th>Age</th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 40</td>
<td>175 watts</td>
<td>150 watts</td>
</tr>
<tr>
<td>40 and over</td>
<td>150 watts</td>
<td>125 watts</td>
</tr>
</tbody>
</table>

*Watt = energy output by cadence of pedaling (faster pedaling = increased watts)

**Option III**

**Military Service:**

United States military personnel and veterans may fulfill this requirement and be awarded up to 4 units of credit with proof of completion of Basic/Recruit Training and 181 days of continuous active duty. Submit copy of military transcripts (JST (Joint Services Transcript), CCAF, DD214, or DD295) to the Records Office.

5. Multicultural Requirement

The overall goal of the Palomar College multicultural course requirement is to promote intercultural understanding and communication in local, national, and global contexts. Students may satisfy this requirement by completing a minimum of 3 units from the approved courses listed below.

Course equivalencies from other institutions may be accepted if the course meets the spirit of the Palomar Multicultural Course Requirement and accurately portrays the cultural and racial diversity of our society. Such courses must focus on a study of multiple cultures and include an emphasis on:

- One or more of the following four American subcultures: African-American, Latino/Latina, Asian or Pacific Islander, and Native American, and at least one additional culture from inside or outside of the United States if only one American subculture was included.
- One or more of the following: socio-economic class, age, sexual orientation, different abilities/ableism
- Gender

Students must be sure that the course is on the approved list during the academic year in which it is taken. The courses listed below meet the requirement effective fall 1997, or with the semester noted in brackets [Fxx]. Courses taken prior to fall 1997 may not be used to meet this requirement. These courses may or may not satisfy another institution’s multicultural requirement.

**Administration of Justice 103**

Africana Studies 100 [F16], 101 [F16], 102 [F16], 120 [F98]

American Indian Studies 100, 101, 104 [F09], 105 [F99], 110 [F99], 115, 120, 121, 125, 140, 145, 150, 165 [F99]

American Sign Language 110[F17]

American Studies 100, 104 [F11], 105 [F07], 121, 200
Anthropology 105, 107 [F16], 135 [F17], 137 [F08], 140
Architecture 121
Chicano Studies 101 [F16], 102 [F16], 105 [F98], 140
Child Development 172 [F08]
Cinema 122 [F08]
Communications 105 [F98]
Counseling 110 [F01], 120 [F01], 148 [F17]
Dance 101 [F98], 102 [F06], 105 [F99]
Economics 115
English 280 [F02]
Family and Consumer Sciences 150 [F98-X15]
Fashion 132 [F98]
Geography 105 [F12]
Graphic Communications 110 [F11], 115 [F12]
History 121 [F99], 130, 140 [F03], 141 [F03], 150 [F06], 151 [F06]
International Business 110 [F05]
Multicultural Studies 100 [F98], 115 [F12], 125 [F12], 165 [F98], 200
Library Technology 100 [F15]
Music 102 [F10], 171 [F98]
Nursing 103 plus Nursing 217 [F01]
Nursing 110 plus Nursing 217 [F01]
Nutrition 120
Religious Studies 101 [F18], 102 [F08], 103 [F08], 110
Sociology 115 [F04], 130 [F08], 135 [F11], 165, 175, 200
Speech 131
Theatre Arts 100 [F18]
Palomar College
Associate Degree General Education Requirements Fall 2018 - Summer 2019
The following list will assist you in choosing courses to fulfill general education requirements for the Associate in Arts or Associate in Science Degree.
- The course must be on the list at the time it was completed
- No course may be used in more than one General Education Area
- Consult a counselor for specific information regarding major prep and additional GE requirements

Students must apply to graduate:
Submit a Graduation Petition to the Evaluations Office in the Student Services Center, SSC-40. See application dates below.

Graduation Application Deadlines:
Completing Requirements: Apply By:
Spring Semester February 28
Summer Session June 30
Fall Semester September 30

Major: Complete a program as outlined in the Palomar College catalog. Major course work must be completed with a “C” or better.

Grade Point Average: Minimum cumulative GPA of 2.0 (“C” average) or higher. Some programs may require a higher GPA.

Residency: Minimum of 12 units in residence as an officially enrolled student at Palomar College

Total Units: Minimum of 60 degree applicable semester units Courses numbered 1-49 are non-degree applicable and do not count toward the degree.

DISTRICT REQUIREMENTS

Competence in American History and Institutions/California Government
AIS 101; AS 101, 102; CS 101, 102; HIST 140, 141; RS 102 fulfill the multicultural requirement. A “C” grade or higher is required. A minimum of 2 courses are required. Choose one pair or successfully pass the approved exam as listed in the college catalog or on the Supplemental Associate Degree Advising Guide. See ASSIST.ORG for up to date approvals and for course(s) completed prior to approval date. Students using coursework from another college and/or university should see a counselor.

Competence in Health and Fitness
A “C” grade or higher is required. Complete HE 100 and one fitness activity course. HE 100L; KINE 128ABCD, 135ABC, 140ABC, 150ABC; or ACS 100 level intercollegiate sport; or FIRE 151; or Completion of Police Academy. See supplemental guide for exceptions, including military service credit.

Competence in Mathematics
A grade of “C” or higher is required. Complete MATH 56, 60, or 63; or a higher-level MATH course. See supplemental guide for exceptions.

Multicultural Requirement – Complete 3 semester units. The course must be on the approved list at the time of completion. Approved courses with effective dates may be found in the catalog or on the Supplemental Associate Degree Advising Guide. GE courses meeting this requirement are marked with an asterisk * followed by their approval date. Non-GE courses meeting this requirement are: AJ 103*, CHDV 172*, CS 140*, IBUS 110*, LT 100*, NURS 103*/217*, 110*/217*, SOC 170*

Legend: +(FXX) – Approval date of course for an area - course taken prior to date indicated may not be used for the GE area
*[FXX] – Approval date of multicultural designation- course taken prior to date indicated may not be used to satisfy the multicultural requirement
General Education Requirements - Minimum 18 semester units required. No course may be used to satisfy more than one General Education Requirement

AREA A: LANGUAGE AND RATIONALITY – Minimum of 3 semester units from each group

A1. English Composition – “C” grade or higher is required.

**Course:** _______________________________________________________________  ❑ Complete  ❑ In Progress  ❑ Need

A2. Communication and Analytical Thinking

**BUS 110, 204+(F18), ENG 202, 203, GEOG 150, MATH 56, 60, 63, 100, 105, 106, 110, 115, 120, 130, 135, 140, 141, 200, 205, 206, 245, PHIL 113, 116, 200; PSYC 205; READ 120+(F04); SOC 205; SPCH 100, 105

**Course:** _______________________________________________________________  ❑ Complete  ❑ In Progress  ❑ Need

AREA B: NATURAL SCIENCES – Minimum of 3 semester units

**ANTH 100, 101; ASTR 100, 120; BION 100, 101, 102, 105, 106, 110, 114, 118, 120, 125, 126, 130, 131, 135+(F09), 140, 141, 145, 185, 200, 201, 210, 211+(F93), 212; CHEM 100, 104, 105, 110, 115, 205+(F07), 210+(F92), 220, 221; ENGR 210; ES 100, 115; GEOG 100, 110, 115+(F95); GEOL 100, 110, 120, 150; NUTR 185; OCN 100; PHSC 100, 101; PHYS 101, 120, 121, 200, 201, 230, 231, 232; PSYC 210

**Course:** _______________________________________________________________  ❑ Complete  ❑ In Progress  ❑ Need

AREA C: HUMANITIES – Minimum of 3 semester units

**AIS 100+(F97), 104+(F09), 105+(F99), 108A, 108B, 135, 145+(F97), 146, 150+(F97), 153, 154, 166A, 166B, 167A, 167B, 207A, 207B, 266A, 266B; AMS 100+(F97), 105+(F07); ANTH 135+(F17), 155; ARAB 101, 102, 201; ARCH 120, 121+(F97); ART 100, 102, 104, 105, 163+(F96), 164+(F96), 165, 166, 169; ASL 100, 101, 110+(F17), 205, 206; CHIN 101, 102, 201; CINE 100, 102, 103, 110, 120, 122+(F08), 123; CS 100, 105+(F98), 155; DBA 100, 230; DANCE 100, 101+(F98), 102+(F06), 105+(F99); ENG 205, 210, 211, 216, 220, 221, 225, 226, 230, 240, 245, 250, 255, 260, 265, 270+(F92), 280+(F02), 290; ESL 101, 102, 103, 109; FASH 130; FREN 101, 102, 201, 202; GC 101, 102, 115+(F12); GERM 101, 102, 201, 202, 225; HIST 105, 106; HUM 100, 101; ID 115+(F03), 120+(F09); ITAL 101+(F97), 102, 201, 202, 225; JAPN 101, 102, 130, 201+(F97), 202+(F97); MUS 124, 125+(F12); MUS 100, 101, 102+(F10), 103, 169+(F17), 171+(F96)+(F98); PHIL 111, 114, 121, 122, 125, 126, 140, 141, 250; PHOTO 125; RS 101+(F18), 104, 105, 108, 110+(F97); SPAN 101, 101A, 101B, 102, 201, 202, 211, 212, 235+(F14); TA 100+(F18), 140, 141, 150

**Course:** _______________________________________________________________  ❑ Complete  ❑ In Progress  ❑ Need

AREA D: SOCIAL AND BEHAVIORAL SCIENCES – Minimum of 3 semester units

**AIS 101+(F97), 102, 110+(F98), 115+(F97), 120+(F97), 121+(F16), 125+(F97), 130, 140+(F97), 165+(F96)+(F99); AJ 100; AMS 121+(F16), 200+(F95)+(F97); ANTH 105+(F97), 107+(F16), 110, 115, 125, 126+(F96), 130, 137+(F08), 140+(F97); AS 100+(F16), 101+(F16), 102+(F16), 120+(F98), 126+(F96), CHDV 100, 110, 115; COMM 100, 105+(F98); CS 101+(F16), 102+(F16); ECON 100, 101, 102, 110, 115+(F97); 120, 125; ENG 150; FCS 101; GCMW 100; GEOG 103, 105+(F12); HIST 101, 102, 107, 108, 121+(F07)+(F99), 130+(F97), 140+(F03), 141+(F03), 150+(F94)+(F06), 151+(F94)+(F06), 160; LS 121+(F05), 240+(F03)+X11; MUS 100+(F98), 125, 160, 165+(F98), 200+(F95)+(F97); PLS 121+(F05), 240+(F05)+(F99+x11); POSC 100, 101, 102, 110, 120, 124; PSYC 100, 105+(F05), 110, 120, 125, 130+(F95), 211, 225+(F97), 235+(F07); RS 102+(F08), 103+(F16), 108; SOC 100, 105+(F05), 110, 115+(F04), 125, 130+(F08), 135+(F11), 165+(F14), 175+(F18), 200+(F05)+(F97); SPCH 120, 131+(F97)

**Course:** _______________________________________________________________  ❑ Complete  ❑ In Progress  ❑ Need

AREA E: LIFELONG LEARNING AND SELF-DEVELOPMENT – Minimum of 3 semester units

**AODS 150+(F08); BION 180; BUS 100, 136; CHDV 100+(F05); COUN 100, 110+(F01), 115, 120+(F01), 148+(F17); CSIT 105; FCS 105, 136; HE 100, 165; LT 120; NUTR 120+(F15), 165, 185; PSYC 105, 115, 125, 145, 150+(F08); READ 110; SOC 105, 125, 130+(F08), 145, 150+(F08); SPCH 115; *Military Credit

*A minimum of 3 semester units of ACE recommended credit for completion of Basic/Recruit Training is required

**Course:** _______________________________________________________________  ❑ Complete  ❑ In Progress  ❑ Need

Legend: +(FXX) – Approval date of course for an area - course taken prior to date indicated may not be used for the GE area
*[FXX] – Approval date of multicultural designation - course taken prior to date indicated may not be used to satisfy the multicultural requirement
Additional Degree Information

Additional Associate Degrees
Additional Associate degrees may be earned in other majors with the exception of General Studies and University Studies. Students may earn only one General Studies and one University Studies degree.

1. Students who have received an Associate degree, and maintained continuous enrollment, may pursue subsequent degrees by fulfilling the major or area of emphasis requirements.
2. Students who have received an Associate degree, but did not maintain continuous enrollment, may pursue a new major or area of emphasis under the catalog of readmission.
3. Students who have received an Associate degree, but did not maintain continuous enrollment, may pursue subsequent degrees by fulfilling the major or area of emphasis, GE, and District requirements under the catalog of readmission.
4. Students with an Associate degree from another college must pursue subsequent degrees in a different major at Palomar by fulfilling the major or area of emphasis, GE, and District requirements under the catalog of readmission.

Catalog Rights and Continuous Enrollment Criteria
Eligibility for graduation is determined by catalog rights and continuous enrollment. Students who do not wish to use the catalog in effect at the time they began continuous enrollment should indicate which catalog they wish to use; otherwise, the catalog under which they began continuous enrollment, or the current catalog, will be used.

Continuous enrollment is defined as attendance in one semester or two quarters (excluding summer) within a calendar year (January through December) in the CSU, UC, or California Community Colleges system following initial enrollment at Palomar. A student must have received a letter grade (including “W”) in the semesters of attendance to maintain continuous enrollment. If a student does not maintain continuous enrollment, the evaluation will be based on the requirements in effect at the time of return to Palomar College, or the date the degree is awarded.

Course Work Limitation
Some departments (such as Automotive Technology) may require that course work for career/technical majors or areas of emphasis be completed within a specified period of time to the granting of the Associate degree.

Notice of Intent to Graduate
When all District and General Education Requirements are completed or in progress, students should submit a Petition for Graduation to the Evaluations Office in the Student Services Center, room SSC-40. Petitions are available in the Counseling or Transfer Centers, the Evaluations Office, or online. Deadlines are strictly adhered to; petitions must be submitted no later than the dates listed below.

Spring graduation – February 28th
Summer graduation – June 30th
Fall graduation – September 30th

Conferring of Degrees and Certificates of Achievement
Associate in Arts degrees, Associate in Science degrees, and Certificates of Achievement will be conferred formally at the Commencement Ceremony held in May at the end of each spring semester. However, students will receive their degree or certificate following the close of the semester in which they apply for graduation.

Certificate of Achievement (CA) Requirements
Students who wish to use coursework from other institutions towards the certificate or wish to pursue additional Palomar degrees should submit official transcripts to the Records Office. Students will be eligible to receive a Certificate of Achievement if they complete the specific course requirements as listed under the majors in the next section of the catalog. In addition to the course requirements, students should be aware of the following guidelines.

1. Fifty percent (50%) of a certificate program must be taken in residence at Palomar College. The remaining courses may be completed at other accredited institutions. Substitutions or waivers must be approved by the appropriate Department Chair/Director.
2. A grade of ‘C’ or higher must be achieved in all certificate courses except where other grade requirements are specified by law. A Department Chair/Director may waive one (1) ‘D’ grade with written justification.
3. Equivalent courses from other institutions may be determined by the Evaluations Office with the exception of Water/Wastewater Technology Education. Certificate credits or courses may be substituted or further equivalencies determined with written justification and approval of the Department Chair/Director.
4. Continuous enrollment is defined as attendance in one semester or two quarters (excluding summer) within a calendar year (January through December) in the CSU, UC, or California Community Colleges system following initial enrollment at Palomar. A student who does not maintain continuous enrollment, the evaluation will be based on the requirements in effect at the time of return to Palomar College, or the date the degree is awarded.
5. It is the responsibility of the student to ensure satisfactory completion of the certificate requirements. When all requirements are completed or in-progress, students should submit a Petition for Graduation to the Evaluations Office in the Student Services Center, room SSC-40. Petitions are available in the Counseling or Transfer Centers, the Evaluations Office, or online. Deadlines are strictly adhered to; petitions must be submitted no later than the dates listed below:

Spring graduation – February 28th
Summer graduation – June 30th
Fall graduation – September 30th
Certificate of Proficiency (CP) Requirements

Certificates of Proficiency are designed to certify basic workplace competencies and job readiness for students who are entering the workforce. In addition to course and certificate requirements, students should be aware of the following:

1. All courses required for each certificate must be taken in residence at Palomar College.
2. A grade of ‘C’ or higher must be achieved in all certificate courses except where other grade requirements are specified by law.
3. It is the responsibility of the student to ensure satisfactory completion of the certificate requirements. When all requirements are completed or in-progress, students should submit a Petition for Certificate of Proficiency form to the Evaluations Office. Petitions are available in the Counseling Center, Transfer Center, Evaluations Office, or online.
4. Petitions must be submitted no later than:
   - Spring deadline – February 28th
   - Summer deadline – June 30th
   - Fall deadline – September 30th
5. Certificates of Proficiency are not awarded at the Palomar College Commencement Ceremony. Certificates will be mailed to students following the close of the semester in which they apply.

Noncredit Certificate of Completion (CN) Requirements

Noncredit Certificates of Completion are designed to lead to improved employability or job opportunities that prepare a student to progress in a career path or to undertake credit courses. In addition to course and certificate requirements, students should be aware of the following:

1. All courses required for each certificate must be taken in residence at Palomar College.
2. A satisfactory grade must be achieved in all certificate course work.
3. It is the responsibility of the student to ensure satisfactory completion of the certificate requirements. When all requirements are completed or in-progress, students should submit an application for the certificate to the Evaluations Office. Applications are available in the Counseling Center, Transfer Center, Evaluations Office, or online.
4. Petitions must be submitted no later than:
   - Spring deadline – February 28th
   - Summer deadline – June 30th
   - Fall deadline – September 30th
5. Certificates of Completion are not awarded at the Palomar College Commencement Ceremony. Certificates will be mailed to students following the close of the semester in which they apply.
TRANSFER INFORMATION
Section 7
Transfer Information

Associate Degree for Transfer Requirements
General Education Transfer Pattern Requirements
CSU System Information
UC System Information

California Community Colleges are now offering Associate Degrees for Transfer to the CSU. These may include Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) degrees. These degrees are designated to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are granted admission with junior standing somewhere in the CSU System and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Palomar College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, go to http://adegreewithaguarantee.com/ Major requirements are listed under the corresponding discipline in Section 8. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Associate Degree for Transfer Requirements

I. Minimum Units
The Associate degree for transfer requires completion of a minimum of sixty (60) CSU-transferable semester units. Courses numbered 1-99 do not count in the sixty (60) units toward the degree. (See the Course Numbering System and Transfer Identification listing.)

II. Grade Point Average (GPA)
Maintain a cumulative grade point average of 2.0 ('C' average) or higher for all CSU-transferable course work attempted.

III. Residency
Complete a minimum of twelve (12) semester units in residence as an officially enrolled student at Palomar College.

IV. Major
Complete a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in Section 7 of the catalog. All courses in the major must be completed with a grade of C or better (Title 5, 55063). Although courses in the major may be taken for Pass/No Pass grading, it is not recommended.

V. District Requirements
Students following Associate Degrees for Transfer (AA-T or AS-T) are not held to Palomar College District Requirements.

VI. General Education Requirements
Certified completion of the California State University General Education Breadth (CSU GE Breadth) pattern OR the Intersegmental General Education Transfer Curriculum (IGETC-CSU) pattern is required. Refer to the CSU GE or IGETC Requirements listings in this section or see a counselor for more information.

VII. Transfer Model Curriculum Reciprocity
1. For those students who come to Palomar College having already begun an AA-T or AS-T at another college in a particular area of study and having already completed courses as stipulated by that college for that AA-T or AS-T, Palomar will accept any courses listed on the TMC, even if they are different from those stipulated by Palomar College.
2. For those students who begin their AA-T or AS-T at Palomar College, Palomar will accept only those courses stipulated by Palomar College for the AA-T or AS-T.
   • For the two-year period following a department's official introduction of its AA-T or AS-T, the Articulation Officer will consult with the department when any issue arises about the acceptance of a course outside of those courses stipulated by the department.

Additional Degree Information
Catalog Rights and Continuous Enrollment Criteria
Eligibility for graduation is determined by catalog rights and continuous enrollment. Students who do not wish to use the catalog in effect at the time they began continuous enrollment should indicate which catalog they wish to use; otherwise, the catalog under which they began continuous enrollment, or the current catalog, will be used.

Continuous enrollment is defined as attendance in one semester or two quarters (excluding summer) within a calendar year (January through December) in the CSU, UC, or California Community Colleges system following initial enrollment at Palomar. A student must have received a letter grade (including “W”) in the semesters of attendance to maintain continuous enrollment. If a student does not maintain continuous enrollment, the evaluation will be based on the requirements in effect at the time of return to Palomar College, or the date the degree is awarded.

Notice of Intent to Graduate
When all requirements are completed or in progress, students should submit a Petition for Graduation to the Evaluations Office in the Student Services Center, room SSC-40. Petitions are available in the Counseling or Transfer Centers, the Evaluations Office, or online. Deadlines are strictly adhered to; petitions must be submitted no later than the dates listed below.

Spring graduation – February 28th
Summer graduation – June 30th
Fall graduation – September 30th
Conferring of Degrees
Associate in Arts for Transfer and Associate in Science for Transfer degrees will be conferred formally at the Commencement Ceremony held in May at the end of each spring semester. However, students will receive their degree following the close of the semester in which they apply for graduation.

Transfer Planning
Students planning to transfer to a four-year university have a wide variety of options. The California State University (CSU) with 23 campuses, the University of California (UC) with 9 campuses, and numerous private, independent colleges in California, as well as out-of-state universities, offer a broad range of academic programs, physical and academic environments, and social climates. Palomar College offers the equivalent of the first two years of these four-year college and university degrees. Students wishing to pursue any of these educational alternatives should meet with a counselor as early as possible to discuss their educational plan.

Successful transfer planning requires the following steps:

• Selecting an academic/career goal
• Selecting an appropriate major to meet your goal
• Selecting the most suitable college or university
• Developing and completing a course of study in preparation for transfer
• Completing the application process; it is advisable to apply to more than one university

Students are encouraged to take advantage of the resources and assistance available in the Transfer Center to successfully complete the steps listed above.

To prepare for transfer, students must decide which campus they will attend through research in the Transfer Center, located in the SSC Building, and consult a counselor for the specific requirements for that particular campus and to create an educational plan. All colleges and universities have specific admission requirements, and may have course and unit requirements as well as minimum grade point averages that must be met prior to transfer. Four-year colleges and universities require students to complete specific general education requirements and major preparation requirements. Students should complete as many of these requirements as possible before they transfer. Palomar College maintains articulation agreements with many colleges and universities which list courses that satisfy general education requirements and lower division major preparation for transfer. For more detailed information, go to www.palomar.edu/counseling/transfercenter.

California State University General Education (CSUGE) Requirements
The following is a General Education pattern which will meet all lower-division General Education requirements at any CSU campus.

Minimum Units
A minimum of 39 semester units is required for full certification of lower-division general education requirements.

Grade Point Average
A minimum of 2.00 ('C' average) is required.

Advanced Placement (AP) Program
Palomar College will accept AP exams toward fulfillment of CSU GE requirements. Please refer to the AP Exam at http://www2.palomar.edu/pages/articulation/ap-ib-clep-and-dantes/ for acceptable general education scores and placement. Please see a counselor for AP acceptance toward major preparation and units toward transfer.

College Level Examination Program (CLEP)
Palomar College will accept some CLEP exams toward fulfillment of CSU GE requirements. Please refer to the CLEP Exam Chart at http://www2.palomar.edu/pages/articulation/ap-ib-clep-and-dantes/ for acceptable general education scores and placement. Please see a counselor for CLEP acceptance toward major preparation and units toward transfer.

International Baccalaureate (IB) Program
Palomar College will accept some IB exams toward fulfillment of CSU GE requirements. Please refer to the IB Exam Chart at http://www2.palomar.edu/pages/articulation/ap-ib-clep-and-dantes/ for acceptable general education scores and placement. Please see a counselor for IB acceptance toward major preparation and units toward transfer.

Petition for Certification
Upon enrollment in final requirements, students should submit a Petition for Graduation/Transfer Certification form to the Evaluations Office in the Student Services Center, room SSC-40.

GE Course Effective Dates
Dates in parentheses (Fxx) following a course indicate the approval of the course for an area. Courses taken prior to date indicated would not be acceptable for meeting a general education requirement.

CSU GE Breadth for STEM
CSU-GE Breadth for STEM is only approved for the Associate in Science in Biology for Transfer Degree. This pattern allows students to defer completion of one course from CSUGE Area C and one course from CSUGE Area D until after transfer. Students earning the AS-T in Biology with this pattern must complete the following before transfer:

• All required courses in Areas A, B, and E
• One course in Area C1, Arts:
• One course in Area C2, Humanities
• Two courses in Area D, Social Sciences, from two different academic disciplines
Palomar College
California State University General Education (CSUGE) Requirements
Fall 2018 - Summer 2019

The California State University (CSU) General Education-Breadth pattern is one option that allows California Community College transfer students to fulfill the lower-division general education requirements of any California State University campus. The pattern includes 39 lower-division semester units with a minimum cumulative 2.0 GPA required, which may be certified by California Community Colleges. Partial certification may be granted by Area (A, B, C, D, or E). Full certification may be granted if all areas and units are completed. Courses may only be certified in one area and must be on the list at the time it was completed. Please see a counselor for specific information regarding major preparation. Students must petition for certification in the Evaluations Office located in SSC-40. The petition deadline dates are as follows:
Completing Requirements: Apply By:
Spring Semester February 28
Summer Session June 30
Fall Semester September 30

AREA A: ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING – Minimum of 9 semester units-3 courses required, 1 from each group below. "C-" grade or higher required.

A1. Oral Communication - SPCH 100
Course: ________________________________

A2. Written Communication - ENG 100
Course: ________________________________

A3. Critical Thinking – ENG 202, 203;
PHIL 113, 116, 200; READ 120+(F04); SPCH 105
Course: ________________________________

AREA B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING – Three courses and a minimum of 9 semester units are required. Select one course from B1, B2, and B4. To satisfy B3, one course must include a corresponding lab from B1 or B2. Courses with a lab included are underlined and lab only courses are identified with "L".

B1. Physical Science
ASTR 100, 105L, 120; CHEM 100, 104, 105, 110, 110L, 115, 115L, 205+(F07); 210+(F92), 220, 221; ES 100, 100L, 115; GEOG 100, 100L, 110, 115+(F98), 125; GEOL 100, 100L, 110, 120, 150, 150L; OCN 100, 100L; PHSC 100, 100L, 101, 101L; PHYS 101, 102, 120, 121, 200, 201, 230, 231, 233
Course: ________________________________

B2. Life Science
ANTH 100, 100L, 101; BIOL 100, 101, 101L, 102, 105, 106, 110, 114+(F98), 114L+(F98), 118, 118L+(F98), 120, 125, 126, 126L, 130, 131, 131L, 135+(F09), 140, 141, 141L, 145, 145L+(F93); 200, 201, 210, 211+(F93), 212; PSYC 210
Course: ________________________________

B3. Laboratory Activity - This requirement is met by selecting any underlined lecture course with a lab from B1 or B2 or by completing any lab (L) course with its corresponding lecture.
Course: ________________________________

B4. Mathematics/Quantitative Reasoning - "C-" grade or higher required
MATH 100, 105, 106+(F98), 110, 115, 120, 130, 135, 140, 141+(F98), 200+(F92), 205+(F98), 206+(F98), 245+(F07); PSYC 205; SOC 205
Course: ________________________________

Legend: +(FXX) – Approval date of course for an area - course taken prior to date indicated may not be used for the GE area
AREA C: ARTS AND HUMANITIES  – Minimum of 9 semester units – 3 courses required, with at least one course from Arts and one course from Humanities, and an additional course from either category

C1. Arts (Arts, Cinema, Dance, Music, Theatre)
AIS 104, 105, 106, 146; ARCH 120, 121, 122; ART 100, 102, 104, 105, 163+(F96), 164+(F96), 165, 166, 169; CINE 100, 102, 103, 110, 120, 122; DBA 100; DNCE 100, 101, 102, 105; FASH 130; GC 101, 115; ID 115+(F09), 120+(F09); MUS 100, 101, 102, 103, 171+(F96); PHOT 125; TA 100, 140, 141, 150

Course: ____________________________

C2. Humanities (Literature, Philosophy, Languages other than English)
AIS 100, 107A+(F16), 107B+(F16), 108A, 108B, 121, 145, 150, 153, 154, 166A, 166B, 167A, 167B, 207A, 207B, 266A, 266B; AMS 100, 105, 121; ANTH 135, 155; ARAB 101, 102, 201; ASL 100, 110, 205, 206; CHIN 102, 201+(F10); CINE 123; CS 100, 150, 140+(F16), 155; ENG 205, 210, 211, 215, 220, 221, 225, 226, 230, 240, 245, 250, 255, 260, 265, 270+(F92), 280, 290; ESL 101, 102, 103; FREN 101, 102, 201, 202; GC 102; GERM 101, 102, 201, 202; HIST 101+(F15), 102+(F15), 105, 106, 107A+(F15), 106+(F15), 121+(F16), 130+(F16), 140+(F16), 141+(F16), 150+(F16), 151+(F16), 160; HUM 100, 101, ITAL 101+(F98), 102, 201; JAPN 101, 102, 130, 201+(F97), 202+(F97); MCS 124, 125; PHIL 111, 114, 121, 122, 125, 126, 140, 250; RS 101, 104, 105, 108, 110, 124; SPAN 101, 101A, 101B, 102, 201, 202, 211, 212, 235+(F14)

Course: ____________________________

Additional C1 or C2 Course – Choose any course not already taken from C1 or C2.
Course: ____________________________

AREA D: SOCIAL SCIENCES  – Minimum of 9 semester units – 3 courses required from at least 2 disciplines
AIS 101, 102, 110, 115, 120, 121, 125, 130, 140, 165+(F96); AJ 100; AMS 121, 200+(F95); ANTH 105, 107, 110, 115, 125, 126+(F96), 130, 137, 140; AS 100, 101, 102, 120, 126+(F96); CHDV 100, 110, 115; COMM 100, 105; CS 101, 102, 140+(F16); ECON 100, 101, 102, 110, 115, 120, 125; ENG 150; FCS 101; GCMW 100+(F09); GEOG 103, 105; HIST 101, 102, 105+(F15), 106+(F15), 107, 108, 121+(F07); 130, 140, 141, 150+(F94), 151+(F94), 160; LS 121+(F15), 240+(F16); MCS 100, 125, 165, 200+(F95); POSC 100, 101, 102, 110, 121; PSYC 100, 105+(F05), 110, 120, 130+(F95), 225+(F07), 235+(F07); RS 102, 108; SOC 100, 105+(F05), 110, 115, 130, 135, 165, 170+(F16), 200+(F95); SPCH 120, 131+(F97)

Course: ____________________________

Course: ____________________________

Course: ____________________________

AREA E: LIFELONG LEARNING AND SELF-DEVELOPMENT  – Minimum of 3 semester units
AODS 150+(F08); BIOL 185; BUS 136+(F15); CHDV 100+(F05); COUN 110, 115, 120+(F02), 148; CSIT 105; FCS 105, 136+(F15); HE 100, 165; NUTR 120, 165, 185; PSYC 105, 115, 125, 145, 150+(F08); READ 110; SOC 105, 125, 130, 145, 150+(F08); SPCH 115

Course: ____________________________

CSU Graduation Requirement in U.S. History, Constitution, and American Ideals. This area is not required for certification. Courses may be used to partially satisfy Areas C2 or D. Please see ASSIST.ORG for up to date approvals and for course(s) completed prior to approval date. Students using transfer work from other colleges and/or universities should consult with a Counselor. Choose one pair:

1AIS 101+(F16) + AIS 102+(F04)
1AIS 101+(F04) + POSC 102+(F04)
AIS 101+(F16) + POSC 120+(F09)
AIS 102+(F04) + AS 101+(F14)
AIS 102+(F04) + POSC 102+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + CS 240+(F16)
AIS 102+(F04) + POSC 101+(F04)
AIS 102+(F04) + POSC 102+(F04)
AIS 102+(F04) + POSC 120+(F09)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + LS 240+(F16)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + HIST 102+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + HIST 141+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + POSC 102+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + POSC 120+(F09)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + HIST 102+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + HIST 141+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + POSC 102+(F04)
AIS 102+(F04) + POSC 102+(F04)
AIS 102+(F04) + LS 240+(F16)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + HIST 102+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + POSC 101+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + HIST 102+(F04)
AIS 102+(F04) + CS 101+(F14)
AIS 102+(F04) + POSC 101+(F04)

1Course may be completed prior to approval date to partially satisfy the designated pair
Course: ____________________________

Legend: +(FXX) – Approval date of course for an area - course taken prior to date indicated may not be used for the GE area
Intersegmental General Education Transfer Curriculum (IGETC) Requirements - UC/CSU

Please read before following the IGETC

The IGETC is a general education pattern which will meet all lower-division general education requirements at all CSU or most UC campuses.

It should be noted that completion of the IGETC is not a requirement for admission to CSU or UC, nor is it the only way to fulfill the lower-division general education requirements of the CSU or UC prior to transfer. Depending upon a student’s major and field of interest, the student may find it advantageous to fulfill the CSU general education requirements, or those of the UC campus or college to which the student plans to transfer. Some colleges within the UC system will not accept IGETC. It is strongly recommended that students consult with a counselor to determine which general education pattern is the most appropriate for them.

Rules for using the IGETC pattern

1. Upon enrollment in final requirements, the student must submit a Petition for Graduation/Transfer Certification form to the Evaluations Office.
2. All IGETC courses must be completed with a grade of ‘C’ or better. A ‘C-’ is not acceptable.
3. UC transfers need not complete the Oral Communication requirement (Area 1, Group C).
4. CSU transfers need not complete the Language Other Than English requirement. It is recommended that CSU transfers complete the U.S. History, Constitution, and American Ideals requirement prior to transfer.
5. Some UC transferable courses have credit limitations. Specific limitations are indicated with the course descriptions in the PC Catalog or available on the assist website at http://www.assist.org.
6. Students who initially enrolled at a UC campus and attend a community college are not eligible to use IGETC for the same campus.
7. Palomar can certify coursework completed at other California Community Colleges provided that it appears on their IGETC course list. Coursework completed at other colleges and universities may be included with approval from PC faculty and the Evaluations Office. CLEP credit or foreign coursework will not be included on the IGETC certification.
8. Advanced Placement (AP) exams can be used to satisfy many course requirements on IGETC. Please refer to the AP Exam Chart on the Articulation website (www.palomar.edu/articulation/) for acceptable scores and placement. See a counselor for AP acceptance toward major prep and units toward transfer. Credit will be given for only one course per area.
9. International Baccalaureate (IB) exams can be used to satisfy many course requirements on IGETC. Please refer to the IB Exam Chart on the Articulation website (www.palomar.edu/articulation/) for acceptable scores and placement. See a counselor for IB acceptance toward major prep and units toward transfer. Credit will be given for only one course per area.
10. If transferring to a UC, a high school transcript demonstrating 2 years of the same foreign language with a final grade of ‘C’ or better will satisfy Area 6. An official high school transcript must be on file with the Records Office.
11. Students wishing to use a course to meet an IGETC requirement must be sure that the course is on the approved list during the academic year in which it is taken. Refer to the statement and semester approval lists following the IGETC pattern.
12. For partial IGETC certification information, make an appointment with a counselor through the Counseling Center.

GE Course Effective Dates

Dates in parentheses (FxX) following a course indicate the approval of the course for an area. Courses taken prior to date indicated would not be acceptable for meeting a general education requirement.

IGETC GE Breadth for STEM

IGETC for STEM is only approved for the Associate in Science in Biology for Transfer Degree. This pattern allows students to defer completion of one course from IGETC Area 3, one course from IGETC Area 4, and one course in Area 6 (Language Other Than English/LOTE -- for students who have not previously satisfied LOTE through proficiency) until after transfer. Students earning the AS-T in Biology with this pattern must complete the following before transfer:

- All required courses in Areas 1, 2, and 5
- One course from Area 3A, Arts
- One course from Area 3B, Humanities;
- Two courses in Area 4, Social and Behavioral Sciences, from two different academic disciplines

This certification is only accepted by UC if the UC major program or college accepts partial IGETC certification. Please see a counselor for details.
Palomar College
Intersegmental General Education Transfer Curriculum (IGETC) Requirements
UC/CSU Fall 2018 - Summer 2019

The IGETC General Education pattern fulfills lower-division general education transfer requirements for transfer to the University of California (UC) or California State University (CSU). Courses may only be used during the time they were approved for IGETC. See a counselor for details. All courses used for IGETC require a grade of "C" or better. A "C-" grade is not acceptable. A course may be certified in one area only with the exception of Area 6 double counting in 3B. IGETC may not be appropriate for selective majors at the UC. Consult a counselor for details. Students who initially enrolled at a UC campus, and attend a community college are not eligible to use IGETC for the same UC campus.

Students must petition for certification in the Evaluations Office located in SSC-40. The petition deadline dates are as follows:

Completing Requirements: Apply By:
Spring Semester February 28
Summer Session June 30
Fall Semester September 30

AREA 1: ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING – Minimum of 9 semester units-3 courses required, 1 from each group below. "C-" grade or higher required.

1A. English Composition - ENG 100
Course: ________________________________

1B. Critical Thinking - ENG 202, 203; PHIL 200
Course: ________________________________

1C. Oral Communication - (CSU Requirement only) SPCH 100
Course: ________________________________

Area 1: ❑ Complete ❑ In Progress ❑ Need

AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING – Minimum of 3 semester units – 1 course required

MATH 110, 120, 130, 140, 141, 200+(F92), 205, 206, 245+(F07); PSYC 205+(F96); SOC 205+(F96)

Course: ________________________________

Area 2: ❑ Complete ❑ In Progress ❑ Need

AREA 3: ARTS AND HUMANITIES – Minimum of 9 semester units – 3 courses required, with at least one course from Arts and one course from Humanities, and an additional course from either category

3A. Arts
AIS 104, 105, 135, 146; ARCH 120, 121; ART 100, 163+(F96), 164+(F96), 165, 166, 169+(F16); CINE 100, 102, 103, 110, 120+(F95), 122; DNCE 100, 101, 102, 105; GC 115; MUS 100, 101, 102, 171+(F96); PHOT 125; TA 100, 140, 141, 150

Course: ________________________________

3B. Humanities
AIS 100, 107B+(F16), 108A+(F16), 108B+(F16), 121+(F16), 145, 150, 166B+(F16), 167A, 167B, 207A+(F16), 207B+(F16), 266A, 266B, AMS 100, 105, 121+(F16); ANTH 135, 155; ARAB 201; ASL 110+(F16); CHIN 201+(F01); CINE 123; CS 100, 105, 140+(F16), 155; ENG 205, 210, 211, 215, 220, 221, 225, 230, 240, 245, 250, 255, 260, 265, 270+(F93), 280+(F93), 290; FREN 201+(F97), 202+(F97); GC 102; GERM 201+(F97), 202+(F97); HIST 101+(F15), 102+(F15); HIRED 101+(F15), 102+(F15), 105, 106, 107+(F15), 108+(F15), 121+(F16), 130+(F16), 140+(F16), 141+(F16), 150+(F16), 160+(F16), HUM 100, 101; ITAL 201+(F01); JAPN 130, 201+(F97), 202+(F97); MCS 124, 125; PHIL 111, 114, 121, 122, 125, 140, 141; RS 101, 104, 105, 108, 110, 124; SPAN 201+(F97), 204A+(F08), 208B+(F08), 208+(F97), 211+(F16), 212, 235+(F14)

Course: ________________________________

Additional 3A or 3B Course – Choose any course not already taken from 3A or 3B.

Course: ________________________________

Area 3: ❑ Complete ❑ In Progress ❑ Need

Legend: +(FXX) – Approval date of course for an area - course taken prior to date indicated may not be used for the GE area
AREA 4 SOCIAL AND BEHAVIORAL SCIENCES – Minimum of 9 semester units - 3 courses required from at least 2 disciplines

AIS 101, 102, 110, 115, 120, 121+(F16), 125, 130, 140, 165+(F96); AJ 100+(F92); AMS 121+(F16), 200+(F95); ANTH 105, 107, 110, 115, 125, 126+(F96), 130, 140; AS 100, 101, 102, 120, 125+(F96); CHDV 100; COMM 100+(F92), 105+(F92); CS 101, 102, 140+(F16); ECON 100, 101, 102, 110, 115, 120, 125; ENG 150;

GEOG 100+(F10); GEOG 103, 105; HIST 101, 102, 105+(F15), 106+(F15), 107, 108, 121+(F07), 130, 140, 141, 150+(F95), 151+(F95), 152+(F16); LS 121+(F15), 240+(F16);

MC 100, 125, 165+(F93), 200+(F95);

Course:  ______________________________________________________________

POSC 100, 101, 102, 120, 125, 130+(F08), 225+(F07), 235+(F07); RS 102, 108; SOC 100, 105+(F95), 110, 115, 125, 130, 135, 170+(F16), 200+(F95); SPCH 120+(F93)

Course:  ______________________________________________________________

AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES – Two courses and a minimum of 7 semester units are required. Select one course from 5A and one course from 5B. One course must include a corresponding laboratory. Courses with a lab included are underlined and lab only courses are identified with "L".

5A. Physical Sciences

ASTR 100, 105L, 120; CHEM 100, 104, 105, 110, 110L, 115, 115L, 205+(F07), 210+(F92), 220, 221; ES 100, 100L, 115; GEOG 100, 100L, 110+(F92), 115+(F98), 125+(F08); GEOL 100, 100L, 120, 150, 150L; OCN 100, 100L, PHSC 100, 100L; PHYS 101, 102, 120, 121, 200, 201, 230, 231, 232

Course:  ______________________________________________________________

5B. Biological Sciences

ANTH 100, 101, 101I; BIOI 100, 101, 101I, 102+(F93), 105, 106, 110, 114+(F98), 114L+(F00), 118+(F93), 118L+(F98), 120, 125, 126, 126L, 130, 131, 131L, 135+(F09), 140, 141, 141L, 145+(F92 ), 145L+(F93), 200, 201, 210, 211+(F93), 212; PSYC 120

Course:  ______________________________________________________________

5C. Laboratory Activity - This requirement is met by selecting any underlined lecture course with a lab from 5A or 5B or by completing any lab (L) course with its corresponding lecture.

Course:  ______________________________________________________________

AREA 6. LANGUAGE OTHER THAN ENGLISH – (UC Requirement Only) High school transcripts required to demonstrate proficiency equivalent to 2 years of high school study in the same language.

AIS 107B+(F16), 108A+(F16), 108B+(F16), 166B+(F16), 167A, 167B, 207A+(F16), 207B+(F16); ARAB 101; ASL 100+(F02); CHIN 101; FREN 101; GERM 101; ITAL 101+(F97); JAPN 101; SPAN 101, 101B

Course:  ______________________________________________________________

CSU Graduation Requirement in U.S. History, Constitution, and American Ideals This area is not required for certification. Courses may be used to partially satisfy Areas 3B or 4. Please see ASSIST.ORG for up to date approvals and for course(s) completed prior to approval date. Students using transfer work from other colleges and/or universities should consult with a Counselor. Choose one pair:

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<td>AIS 102+(F04) + POSC 101+(F04)</td>
<td>HIST 102+(F04) + LS 240+(F16)</td>
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1'Course may be completed prior to approval date to partially satisfy the designated pair

Legend: +(FXX) – Approval date of course for an area - course taken prior to date indicated may not be used for the GE area
IGETC EFFECTIVE DATES

The IGETC program began in Fall 1991. Course work completed prior to that term may be used for IGETC if it appeared on the 1991-92 IGETC course list. All courses taken in Fall 1991 or later must be on the approved IGETC list at the time they were taken. Courses added to the IGETC list are listed below with their approval date. It is important for students to have an updated list each year while at the community college.

Fall 1992 Additions:
AJ 100; BIOL 131L; BOT 115; CHEM 210; COMM 100, 105; ENG 202, 203; FREN 220, 225, 230; GEOG 110; MATH 200; MUS 170; PHIL 115; RUSS 220; ZOO 120, 145

Fall 1993 Additions:
BIOL 102, 118; CS 125; ENG 270, 280; MATH 150; MCS 165; SPCH 120; ZOO 145L, 203

Fall 1994 Additions:
No additions

Fall 1995 Additions:
AMS 200; CINE 120; HIST 150, 151; MCS 200; SOC 200

Fall 1996 Additions:
AIS 165; AS 126; ANTH 126; ART 163, 164; HIST 107, 108; MUS 171; OCN 101; PSYC 205; SOC 205

Fall 1997 Additions:
FREN 201, 210; GERM 201, 210; ITAL 101; JAPN 201, 210; LAT 201, 210; RUSS 201, 210; SPAN 201, 210

Fall 1998 Additions:
BIOL 107, 114, 118L; CHEM 102; DNCE 101; GEOG 115; HIST 109, 114; PHYS 115

Fall 1999 Additions:
AMS 110; MCS 110; OCN 115; PHSC 100L; PHYS 110; TAG 101

Fall 2000 Additions:
BIOL 114L

Fall 2001 Additions:
CHIN 130, 201; ITAL 201; TAG 201

Fall 2002 Additions:
ASL 100; CINE 102, 103; PHYS 101, 102, 200, 201

Fall 2003 Additions:
ANTH 100L; ENG 290

Fall 2004 Additions:
ENG 265

Fall 2005 Additions:
ANTH 125; GEOG 103; HIST 152; PSYC/SOC 105

Fall 2006 Additions:
ANTH 101; ARAB 101B, 201A, 201B; DNCE 102, MCS 122

Fall 2007 Additions:
AMS 105; CHEM 104; CS 130, 135; MCS 120, 124; TA 150

Fall 2008 Additions:
BIOL 215; CHEM 205, 205L; CINE 122; DT 120, 121; HIST 121, 135; JS 106, 107; MATH 245; PHIL 103; PSYC 225, 235; RS 102, 103, 106, 107, 124; SOC 130

Fall 2009 Additions:
AIS 104; ANTH 107, 145; CHIN 201A, 201B; GC 102, GEOG/GEOL 125; ITAL 201A; PSYC 130; RS 108; SPAN 201A, 201B; SPCH 125

Fall 2010 Additions:
BIOL/ZOO 135

Fall 2011 Additions:
GC 110; GCMW 100; SOC 135

Fall 2012 Additions:
ECON 120; GC 115; MCS 115, 125

Fall 2013 Additions:
ARAB 101; ART 163, 164; CINE 123

Fall 2014 Additions:
AIS 146, 167A, 167B; ECON 125; PHIL 111, 121, 122; RS 104; SOC 165; SPAN 212, 235

Fall 2015 Additions:
AIS 266A, 266B; ES 100L; JAPN 130; LS 121; POSC 121

Fall 2016:
AIS 107B, 108A, 108B, 121, 166B, 207A, 207B; AMS 121; ART 169; ASL 110; CS 140; HIST 160; LS 240; MCS 160; POSC 240; SOC 170; SPAN 211

The California State University (CSU) System

The California System of State Universities and Colleges provides upper-division educational programs for California Community College transfer students.

Palomar College students wishing to transfer to a California State University may choose from the following campuses:

- Bakersfield (Q)
- Cal Poly, Pomona (Q)
- Channel Islands (S)
- Dominguez Hills (Q)
- Fullerton (S)
- Humboldt (S)
- Los Angeles (Q)
- Long Beach (S)
- Northridge (S)
- San Bernardino (Q)
- San Diego (S)
- San Francisco (S)
- San Jose (S)
- San Marcos (S)
- Sonoma (S)
- Stanislaus (4-1-4)
- California Maritime Academy (S)
- Cal Poly, San Luis Obispo (Q)
- Chico (S)
- Fresno (S)
- East Bay (Q)
- Long Beach (S)
- Monterey Bay (S)
- Sacramento (S)
- San Diego (S)
- San Jose (S)
- Sonoma (S)

S = Semester system; Q = Quarter system

Students planning to transfer to a California State University should plan a program to meet the admissions and graduation requirements of the specific institution that they plan to attend. Due to budget constraints, the CSU System will have reduced enrollment spaces for new students. See a counselor to inquire about individual campus requirements.
Upper Division Transfer Admission Requirements
Minimum eligibility requirements for admission include the following, but may not be competitive for all campuses and/or majors:

1. Have a college grade point average of 2.0 or better (2.4 for non-California residents) in all transferable college units completed.
2. Are in good standing at the last college or university attended, i.e., you are eligible to re-enroll.
3. Have completed or will complete prior to transfer at least 30 semester units (45 quarter units) of courses which include English Composition, Oral Communication, Critical Thinking, and Mathematics, with grades of ‘C’ or better in each course.
4. Have a total of 60 CSU transferable units.

Please be advised that these are minimum entrance requirements, and that they do not guarantee admission to any of the 23 CSU campuses. Many CSU campuses are currently requiring completion of all general education courses, as well as completion of all lower division major preparatory course work offered at the community college you are attending. GPA requirements will vary with the applicant pool. Prospective transfer students are urged to make an appointment with a counselor to begin their transfer planning early.

Application Filing Periods
All California State Universities use a common admission process. Some campuses require supplemental application materials. Students must apply online at www.csumentor.edu. Most campuses will acknowledge receiving your application within two to four weeks.

- Fall Semester or Quarter: October 1
- Winter Quarter: February 1
- Summer Semester or Quarter: June 1
- Spring Semester or Quarter: August 1

NOTE: Filing an application on time, correctly, and completing the required follow-up steps can make the difference between being accepted or not.

General Education/Breadth Options
All campuses of the CSU system require a minimum of 48 semester units of general education. Thirty-nine of these units may be taken at community colleges. Students may fulfill the lower division general education requirements prior to transfer by completing one of the following three options:

1. The California State University General Education Certification pattern which will fulfill the lower division general education/breadth requirements for all CSU campuses.
2. The Intersegmental General Education Transfer Curriculum which will fulfill the lower division general education/breadth requirements for all CSU and most UC campuses.
3. The specific lower division general education/breadth requirements of the campus to which they intend to transfer.

The CSU GE and IGEC transfer certification patterns are listed above under Transfer Planning. Students should consult a Palomar College counselor to determine which option is best suited for their educational objective.

General Education Certification
Certification is a legal agreement between CSU and community colleges in California to assure that CSU lower division general education requirements have been satisfied.

Upon student request the Evaluations Office at Palomar College will provide certification of appropriate general education course work. Official transcripts from other colleges and universities, Advanced Placement exams, and International Baccalaureate exams must be on file before submitting the petition, and will be reviewed for inclusion in the certification process.

The University of California (UC) System
The University of California is an integral part of the public education system of California. The campuses of the University of California are located in:

- Berkeley (S)
- Irvine (Q)
- Merced (S) *
- Santa Barbara (Q)
- San Diego (Q)
- Davis (Q)
- Los Angeles (Q)
- Riverside (Q)
- Santa Cruz (Q)
- San Francisco (Q) +

S = Semester system; Q = Quarter system
+ San Francisco is primarily for graduate-level medical studies

Each campus of the University of California accepts course work from the California Community Colleges system designated as UC transferable at full unit value. Students intending to transfer to the university will find it advantageous to complete their lower division requirements at Palomar College. To prepare for transfer, students must decide which college they will attend through research in the Transfer Center, SSC Building, and consult a counselor for the specific requirements for that particular campus and to create a written educational plan.

Upper Division Transfer Admission Requirements
Minimum eligibility requirements for admission include the following, but may not be competitive for all campuses and/or majors.

1. Complete 60 semester (90 quarter) units of transferable college credit with a grade point average of at least 2.4 (2.8 or higher for non-resident students).
2. Complete the following course pattern, earning a grade of ‘C’ or better in each course:
   a) Two transferable college courses in English composition
   b) One transferable college course in mathematical concepts and quantitative reasoning
   c) Four transferable college courses chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

Application Filing Periods
The University of California system includes nine campuses. All campuses, except for the San Francisco Medical School, follow similar entrance requirements and use a common application form. However, individual campuses may impose additional entrance criteria for impacted majors and programs. Consult the university catalog, a member of the Palomar College counseling staff, or http://www.assist.org for specific information. Applications may be accessed at http://www.universityofcalifornia.edu.
Berkeley and Merced:
The Intersegmental General Education Transfer Curriculum (IGETC) which will fulfill the lower division general education breadth requirements for all UC and CSU campuses.

All other campuses:
- Fall Quarter: Nov. 1 – 30
- Winter Quarter: July 1 – 31
- Spring Quarter: Oct. 1 – 31

NOTE: Courses approved for IGETC will meet these admissions requirements for the University of California.

Students may transfer up to 70 UC transferable community college units to the UC. A minimum 2.4 GPA is required for admission, but most of the UC campuses use a 3.0 or higher GPA depending upon the major.

Detailed information on how to make up missing high school subjects is available in the Counseling and Transfer Centers. A complete listing of all Palomar courses which transfer to the UC campuses is available at http://www.assist.org.

General Education/Breadth Options
Each school and college at every UC campus has its own general education/breadth requirements. Students may fulfill the lower division general education/breadth requirements at any UC campus by completing one of the following two options:

1. The Intersegmental General Education Transfer Curriculum (IGETC) which will fulfill the lower division general education breadth requirements for all UC and CSU campuses.
2. The specific lower division general education/breadth requirements of the campus to which they intend to transfer.

The IGETC transfer certification pattern is listed above under Transfer Planning and is also listed on the Assist website at http://www.assist.org. Students should consult a Palomar College counselor to determine which option is best suited for their educational objective.

* Use of the IGETC to satisfy lower-division General Education requirements is either not allowed under some circumstances or not recommended for some majors. Consult a counselor regarding these restrictions.

General Education Certification
Certification is a legal agreement between UC and community colleges in California to assure that UC lower division general education requirements have been satisfied.

The entire pattern must be completed prior to transfer. Upon enrollment in final requirements, the student should submit a Petition for Graduation/Transfer Certification form, along with the Advising Guide (signed by a Counselor) to the Evaluations Office. Official transcripts from other colleges and universities, Advanced Placement exams, and International Baccalaureate exams must be on file before submitting the petition, and will be reviewed for inclusion in the certification process.

Transfer Admission Guarantee Programs
Palomar College has transfer admission guarantee programs with seven campuses of the University of California. All of these agreements guarantee admission into the university and some guarantee admission into the major.

Each Transfer Admission Guarantee program varies in regard to eligibility, terms of transfer, minimum grade point average (GPA), etc. Visit the Transfer Center or the Transfer Center web page at http://www.palomar.edu/counseling/transfercenter for additional updated information.

The following is a list of UC campuses with which Palomar College has admission guarantee programs. These Transfer Admission Guarantee programs are referred to as TAGs.

University of California, Davis (UCD)
Palomar College participates in a TAG program with UC Davis, which guarantees admission to the university and to most majors.

University of California, Irvine (UCI)
Palomar College participates in a TAG program with UC Irvine, which guarantees admission to the university and to most majors.

University of California, Merced (UCM)
Palomar College participates in a TAG program with UC Merced, which guarantees admission to the university and to all majors.

University of California, Riverside (UCR)
Palomar College participates in a TAG program with UC Riverside, which guarantees admission to the university and all majors.

University of California, San Diego (UCSD)
University Link Program
Graduating high school seniors are eligible for this program which promotes preparation for guaranteed admission to UCSD. This program links Palomar students with counselors from Palomar and UC San Diego. Contact the Counseling Center for additional information. This program is also available for veteran students.

University of California, Santa Barbara (UCSB)
Palomar College participates in a TAG program with UC Santa Barbara, which guarantees admission to the university; however, not a guarantee into the major.

University of California, Santa Cruz (UCSC)
Palomar College participates in a TAG program with UC Santa Cruz, which guarantees admission to the university; however, not a guarantee into the major.

Independent California Colleges and Universities
There are more than 75 fully-accredited independent colleges and universities currently affiliated with the Association of Independent California Colleges and Universities (AICCU) providing a host of options at undergraduate, graduate, and professional levels for students planning to continue their education beyond Palomar College.

Admissions policies vary widely from one school to another, and virtually all institutions give full credit for general education courses and usually for courses designated for transfer by the community college. A good rule to follow for independent colleges as well as for out-of-state institutions is to expect full credit for courses which are parallel in scope and content to courses offered for credit to lower division “native” students at those institutions. Articulation agreements for many independent institutions are available in the Counseling Center.
Independent colleges are flexible in admission policies and in awarding credit. They invite interested students to make an appointment with their Office of Admissions in order to discuss transfer opportunities on a personal basis.

Financial aid may be a primary factor in considering attending an independent college. Most students cut the cost in half by attending the community college to complete the lower division course work and requirements. Information on financial aid and scholarships is available from the financial aid offices on independent college campuses as well as in the Financial Aid Office at Palomar College.

Students are advised to refer to the AICCU’s web site at www.aiccu.edu.

Private and Out-of-State Universities

Palomar College offers courses similar to those offered in the lower division, or the first two years, of four-year colleges and universities. Since course requirements for graduation vary between colleges, it is to the student’s advantage to choose the college or university to which he or she plans to transfer as early as possible.

Students are advised to complete the courses at Palomar College which best satisfy the lower division course requirements at that particular college or university to which he or she ultimately transfers. Lower division course requirements typically include a set of general education courses as well as a sequence of courses in the student’s chosen major field of study.

Students are encouraged to meet with a counselor to develop an academic program best suited for their transfer institution and intended major. The Transfer and Counseling Centers maintain materials to assist students in their transfer planning.
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Students are held responsible for understanding and fulfilling all requirements presented herein, and for understanding and fulfilling any changes in those requirements which may have occurred since the printing of the catalog. Students are advised to check at the division or department levels for these changes.

Student Learning Outcomes

Student Learning Outcomes identify the knowledge, skills, abilities and attitudes that students will be able to demonstrate at the end of a course or program of study. Student Learning Outcomes are assessed regularly, and assessment results are used for making improvements to the course, and/or the program, if necessary.

A list of Student Learning Outcomes for Palomar College courses is available at http://www.palomar.edu/slo The list is updated twice annually.

General Education/Institutional Student Learning Outcomes are also available at http://www.palomar.edu/slo/

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different California community colleges. However, students should always go to www.assist.org to confirm how each college’s course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one California community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can help students interpret or explain this information.

C-ID Courses

Following is a list of Palomar College courses with California C-ID Number approvals at the time of catalog publication. This list is subject to change as new C-ID Numbers become available.

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Accounting (ACCT)

See also Business

Contact the Business Administration Department for further information.
760-744-1150, ext. 2488
Office: MD-341
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Accounting (AS, CA)
The Associate in Arts Degree and/or Certificate of Achievement in Accounting is designed to prepare the graduate for entry into positions in industry, public accounting firms, government, and nonprofit organizations. The graduate will have an understanding of accounting and business concepts.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<td>MATH 120: Elementary Statistics</td>
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<td>or</td>
<td>MATH 130: Calculus for Business and the Social Sciences</td>
<td>4</td>
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<tr>
<td>BUS 117</td>
<td>Legal Environment of Business</td>
<td>3</td>
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<tr>
<td>BUS 125</td>
<td>Business English</td>
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<td>or</td>
<td>BUS 205: Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL UNITS</td>
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<td>31 - 32</td>
</tr>
</tbody>
</table>

Recommended Electives: BUS 140, 173; CE 100; CSIT 105 or CSIT 120

Bookkeeping/Accounting Clerk (CP)
Provides a program to prepare the student for an entry-level Bookkeeping/Accounting Clerk position.

CERTIFICATE OF PROFICIENCY

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 101</td>
<td>Bookkeeping</td>
<td>3</td>
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<tr>
<td>or</td>
<td>ACCT 201: Financial Accounting</td>
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<tr>
<td>ACCT 104</td>
<td>Accounting Spreadsheet Concepts</td>
<td>2</td>
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<tr>
<td>ACCT 110</td>
<td>Quickbooks</td>
<td>2</td>
</tr>
<tr>
<td>ACCT 115</td>
<td>Sales Tax, Payroll Taxes, and Employee Benefits</td>
<td>2</td>
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COURSE OFFERINGS

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ACCT 101</td>
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</tr>
<tr>
<td></td>
<td>3 hours lecture</td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>Not open to students who have completed ACCT 201</td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability: CSU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comprehensive coverage of the basic bookkeeping cycle, including journalizing, posting, worksheet and financial statements. Designed to give practical preparation for bookkeeping positions.

ACCT 104  Accounting Spreadsheet Concepts (2)
2 hours lecture
Prerequisite: A minimum grade of "C" in ACCT 101 or ACCT 201, or concurrent enrollment in ACCT 101 or ACCT 201
Transfer acceptability: CSU
Application of fundamental and some intermediate spreadsheet concepts, principles, and commands in working with templates and modeling problems in accounting principles.

ACCT 105  Individual Income Taxes (4)
4 hours lecture
Transfer acceptability: CSU
Tax planning and preparation topics for individuals including filing status, exemptions, income and exclusions, business expenses, itemized deductions, credits, capital gains, depreciation tax payments, California Personal Income Tax.

ACCT 107  Taxation of Business Entities (4)
4 hours lecture
Transfer acceptability: CSU
Taxation from a business entities approach including business deductions, losses, property transactions, and tax credits. Topics will include rules related to corporations, partnerships, and S corporations.

ACCT 110  QuickBooks (2)
1 hour lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in ACCT 101, or ACCT 201
Transfer acceptability: CSU
Applying the computer in the study of accounting principles with emphasis on planning and analysis. Students prepare data and enter accounting transactions, which are used as input for QuickBooks Pro in order to yield the various accounting statements as output.

ACCT 115  Sales Tax, Payroll Taxes, and Employee Benefits (2)
2 hours lecture
Transfer acceptability: CSU
Provides a knowledgeable background in all phases and aspects of sales tax and payroll accounting. Surveys the various tax procedures required by the employer and employee in filing the correct forms for social security, and federal and state income tax returns. Worker's compensation and state disability benefits will be discussed, as well as pensions, health plans, vacation and sick leave, and other employee benefits.

ACCT 120  Analysis of Financial Statements (3)
3 hours lecture
Prerequisite: A minimum grade of "C" in ACCT 201
Transfer acceptability: CSU
Exploration of the characteristics of financial statements and analysis of reported results from such statements. How to apply ratios to financial statements and to interpret outcomes in order to draw various inferences and/or conclusions from the results.

ACCT 197  Accounting Topics (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Accounting. See Class Schedule for specific topic offered. Course title will designate subject covered.

ACCT 201  Financial Accounting (4)
4 hours lecture
Transfer acceptability: CSU; UC
C-ID ACCT 110
This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics.
The field of Administration of Justice is directed toward the prevention, discovery, control and treatment of crimes, criminals, and criminality. This Associate in Science in Administration of Justice for Transfer (A.S.-T) degree provides a path to students who wish to transfer to a CSU campus in Administration of Justice. The degree allows students to learn the fundamental principles and practices of law enforcement, the court system, and the corrections systems. Students who major in Administration of Justice are preparing for a wide variety of career opportunities in such areas as uniformed police officer, investigation, criminal identification, criminalistics, and corrections.

Pursuant to SB1440, the following completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   A. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0."

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

**AS-T TRANSFER MAJOR**

**List A: Program Requirements**
- AJ 100 Introduction To Criminal Justice 3
- AJ 104 Criminal Law 3

**List B: Select 2 courses**
- AJ 101 Criminal Evidence 3
- AJ 102 Criminal Procedures 3
- AJ 103 Community Relations 3
- AJ 110 Basic Criminal Investigation 3

**List C: Select 2 courses**
- PSYC 100 Introduction to Psychology 3
- SOC 100 Introduction to Sociology 3
- PSYC/SOC 205 Statistics for the Behavioral Sciences 4
- MATH 120 Elementary Statistics 4

**TOTAL UNITS 18 - 19**

**Administration of Justice – General (AS)**

This program prepares students for a career in the criminal justice system or private security services. The program will give students general knowledge and skills in theory, principles, and techniques of law enforcement agencies and private security services.

**A.S. DEGREE MAJOR**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AJ 100</td>
<td>Introduction To Criminal Justice</td>
<td>3</td>
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<tr>
<td>AJ 101</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>AJ 102</td>
<td>Criminal Procedures</td>
<td>3</td>
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<tr>
<td>AJ 103</td>
<td>Community Relations</td>
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<td>AJ 104</td>
<td>Criminal Law</td>
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<td>AJ 106</td>
<td>Police Ethics</td>
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<td>AJ 180</td>
<td>Criminology</td>
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<td>*CE 100</td>
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</table>

**Electives (Select 12 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>AJ 65</td>
<td>Preparation for Law Enforcement</td>
</tr>
<tr>
<td>AJ 97</td>
<td>Topics In Administration Of Justice</td>
</tr>
<tr>
<td>AJ 140</td>
<td>Criminal Justice In The 21ST Century - Field Study</td>
</tr>
<tr>
<td>AJ 197</td>
<td>Topics In Administration Of Justice</td>
</tr>
</tbody>
</table>

**TOTAL UNITS 36**

*Cooperative Education must be related to this major.

**Administration of Justice - Homeland Security (AS)**

This program prepares students for a career in the public or private job sector providing security services to institutions, government entities (Department of Homeland Security and Transportation Security Administration), and the general public. This program will give students general knowledge and skills of Homeland Security.

**A.S. DEGREE MAJOR**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AJ 100</td>
<td>Introduction To Criminal Justice</td>
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<tr>
<td>AJ 101</td>
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<tr>
<td>AJ 103</td>
<td>Community Relations</td>
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<td>AJ 104</td>
<td>Criminal Law</td>
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<td>AJ 106</td>
<td>Police Ethics</td>
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<td>AJ 151</td>
<td>Introduction to Terrorism</td>
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<td>AJ 152</td>
<td>Weapons of Mass Destruction</td>
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<tr>
<td>AJ 153</td>
<td>Issues in Homeland Security</td>
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<tr>
<td>AJ 180</td>
<td>Criminology</td>
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<tr>
<td>FIRE 131</td>
<td>Emergency Preparedness</td>
<td>3</td>
</tr>
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</table>

**TOTAL UNITS 36**

*Cooperative Education must be related to this major.

It is recommend that a student working towards an associate degree in Homeland Security take two of the following courses: POSC 110; SOC 110; and/or PSYC 120.
Administration of Justice – Investigations (AS)

This program prepares students for a career in the public or private sector providing general knowledge and skills in theory, principles, and techniques of forensic science and investigation in the criminal justice system.

A.S. DEGREE MAJOR

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<td>*CE 100</td>
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</tbody>
</table>

TOTAL UNITS 36

*Cooperative Education must be related to this major.

Administration of Justice – Law Enforcement (AS)

This program prepares students with the general knowledge and skills required for a career in municipal and county law enforcement as a sworn peace officer.

A.S. DEGREE MAJOR

<table>
<thead>
<tr>
<th>Program Requirements</th>
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<td>AJ 180</td>
<td>3</td>
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<tr>
<td>*CE 100</td>
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</tr>
</tbody>
</table>

TOTAL UNITS 36

*Cooperative Education must be related to this major.

Basic Police Academy (CA)

The Basic Police Academy Certificate of Achievement is a series of courses which when combined satisfy mandated training requirements for a California Basic Peace Officers Standards and Training (POST) program. The program is certified and prepares the student for work as a law enforcement officer in the State of California.

Admission to the program is by special application. To be eligible for consideration, the applicant must (1) be free of felony conviction or conviction of a misdemeanor which prohibits possession of a firearm, (2) be eligible for English 50, (3) possess a valid driver’s license, (4) pass written, oral and physical fitness examinations, (5) pass a medical examination, (6) be 18 years old, and (7) pass Department of Justice clearance.

In addition to passing the required college examinations, the student must obtain passing scores on each P.O.S.T. Learning Domain Examination, and all skills/lab portions of the Academy.

Each block must be completed in sequential order within the same Academy.

CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
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<td>AJ 94B</td>
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<td>8.5</td>
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<td>AJ 95B</td>
<td>13</td>
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</table>

TOTAL UNITS 43.5

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

AJ 65 Preparation for Law Enforcement (3)

Prerequisite: A minimum grade of ‘C’ in AJ 91

Note: Not offered for Pass/No Pass grading; may not be taken as an audit

This course provides an overview of the hiring process of public and private agencies, and prepares the student for work as a law enforcement officer in the State of California.

AJ 90 Basic Police Academy I (20)

Prerequisite: Admission to the Police Academy

May not be taken for Pass/No Pass grading; may not be taken as an audit

This course provides an overview of the hiring process of public and private agencies, and prepares the student for work as a law enforcement officer in the State of California.

AJ 91 Basic Police Academy II (18.5)

Prerequisite: Admission to the Police Academy

May not be taken for Pass/No Pass grading; may not be taken as an audit

This course provides an overview of the hiring process of public and private agencies, and prepares the student for work as a law enforcement officer in the State of California.

AJ 92 Basic Police Academy III (19)

Prerequisite: Admission to the Police Academy

May not be taken for Pass/No Pass grading; may not be taken as an audit

This course provides an overview of the hiring process of public and private agencies, and prepares the student for work as a law enforcement officer in the State of California.

AJ 93 Basic Police Academy Module III (8)

Prerequisite: Admittance to the Police Academy

This course provides an overview of the hiring process of public and private agencies, and prepares the student for work as a law enforcement officer in the State of California.

AJ 94A Basic Police Academy Module IIA (7)

Prerequisite: Admittance to the Police Academy

This course provides an overview of the hiring process of public and private agencies, and prepares the student for work as a law enforcement officer in the State of California.
### Administration of Justice

AJ 94B  
**Basic Police Academy Module IIB**  
5 hours lecture - 6 hours laboratory  
**Prerequisite:** Admission to the Police Academy  
AJ 94A and 94B are equivalent to the Basic Course Module I extended-format training standards as set forth by the Commission on Peace Officer Standards and Training (POST). Covers report writing, cultural diversity and discrimination, preliminary investigation, evidence, crimes in progress, and other related police topics. AJ 94A and 94B meet the requirements for appointment as a Level II Reserve Officer.

AJ 95A  
**Basic Police Academy Module IA**  
7 hours lecture – 4½ hours laboratory  
**Prerequisite:** Admission to the Police Academy  
AJ 95A and 95B are equivalent to the Basic Course Module I extended-format training standards as set forth by the Commission on Peace Officer Standards and Training (POST). Covers crimes against children, sex crimes, juvenile law, domestic violence, gang awareness, vehicle pullovers, and other related police topics. AJ 95A and 95B meet the requirements for appointment as a full-time peace officer or Level I Reserve Officer.

AJ 95B  
**Basic Police Academy Module IB**  
8 hours lecture - 1½ hours laboratory  
**Prerequisite:** Admission to the Police Academy  
AJ 95A and 95B are equivalent to the Basic Course Module I extended format training standards as set forth by the Commission on Peace Officer Standards and Training (POST). Covers emergency management, traffic enforcement and collision investigation, controlled substances, lifetime fitness, arrest and control, vehicle operations, and other related police topics. AJ 95A and 95B meet the requirements for appointment as a full-time peace officer or Level I Reserve Officer.

AJ 97  
**Topics in Administration of Justice**  
5 - 20 hours  
**Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.**  
**Note:** May not be taken for Pass/No Pass Grading  
Topics in Administration of Justice. See Class Schedule for specific topic offered. Course title will designate subject covered.

AJ 100  
**Introduction to Criminal Justice**  
3 hours lecture  
**Transfer acceptability:** CSU; UC  
C-ID AJ 110  
A comprehensive overview of the American Criminal Justice System. History, theories, and philosophy of the three parts of the criminal justice system including law enforcement, courts, and corrections. Relevant sociological and economic issues, past and present, will be addressed.

AJ 101  
**Criminal Evidence**  
3 hours lecture  
**Transfer acceptability:** CSU  
C-ID AJ 124  
The kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

AJ 102  
**Criminal Procedures**  
3 hours lecture  
**Transfer acceptability:** CSU  
C-ID AJ 122  
Review of the criminal justice system; criminal procedures from incident to final disposition; principles of constitutional, federal, and state laws as they apply to, and affect the administration of justice.
African American Studies (AS)

See also Multicultural Studies

Contact the Multicultural Studies Department for further information.
760-744-1150, ext. 2206
Office: MD-354
For transfer information, consult a Palomar College Counselor.

COURSE OFFERINGS

AS 100  Introduction to African American Studies  (3)
3 hours lecture
Transfer acceptability: CSU; UC
This course is an overview of the African American Studies (or Black Studies) discipline, including its social and academic origins, goals, and development. Emphasis is placed on understanding the fundamental areas of study within the field and on the interdisciplinary approach to studying the African American experience and cultural production.

AS 101  African American History I  (3)
3 hours lecture
Note: This course plus AS 102 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC - maximum credit for one pair: AS 101-102 or HIST 101-102
African-Americans in the history of the U.S. from Africa through Reconstruction with emphasis on the trans-Atlantic slave trade; colonial period; relations between African Americans and Native Americans; African Americans, Native Americans, whites and the creation of “race”; development of plantation system, slavery; gender specific oppression; African Americans, Native Americans, and the Revolution; the constitution; free African Americans in North and South, emerging class distinctions and African American cultures; westward expansion; emergence of sectionalism; African American and white women and abolitionism in the context of the Great Awakening; the anti-slavery movement, including relations to the women rights movement; the American West and connections between Mexican/American and African American history; African Americans and the Civil War; Reconstruction and post-war adjustments, including role of the African American middle class and working class.

AS 102  African American History II  (3)
3 hours lecture
Note: This course plus AS 101 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC - maximum credit for one pair: AS 101-102 or HIST 101-102
Cultural, economic, and political development of African-Americans in the United States since Reconstruction. Emphases on post-Civil War difficulties, e.g. segregation, repression, community formation; the Westward Movement; African Americans and Native Americans; industrial development; impact of World Wars I and II on urbanization and social mobility; Great Migration; activism; expansion of government activity; Civil Rights Era and modern militancy; relations with Latinos/as and other ethnic/racial groups; post-Civil Rights era and debates about black identity, black gender identities, women's rights, LGBTQ rights, class differentiation; Black identity in the 21st century.

AS 120  Introduction to Africana Social Institutions and Behavior  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Social institutions and their influence on the behavior of Africana peoples. Analysis of facts, principles, and concepts basic to understanding human behavior.

AS 126  Cultures of Africa  (3)
3 hours lecture
Note: Cross listed as ANTH 126.
Transfer acceptability: CSU; UC
Introduction to the indigenous peoples and cultures of Africa. Brief prehistoric and historic background of the continent. Comparative study of traditional cultures representative of the continent's diversity. Focus on social, economic, political, religious and aesthetic life, and culture change.
Air Conditioning, Heating and Refrigeration (ACR)

Contact the Trade and Industry Department for further information.
760-744-1150, ext. 2545
Office:T-102A

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Air Conditioning, Heating and Refrigeration
Entry Employment Ready (CP)

Air Conditioning, Heating, and Refrigeration program is designed to provide students with the knowledge and hands-on learning skills in the air conditioning and refrigeration industry. Applications of theory, principles and techniques will include system components and their interrelated functions, safety, procedures, tools, and equipment to prepare the student for entry level employment in the HVAC field.

CERTIFICATE OF PROFICIENCY

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 101</td>
<td>Air Conditioning, Heating, and Refrigeration: Mechanical</td>
<td>3</td>
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<tr>
<td>ACR 102</td>
<td>Air Conditioning, Heating, and Refrigeration: Electrical</td>
<td>3</td>
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<tr>
<td>ACR 103</td>
<td>Air Conditioning, Heating, and Refrigeration: Heating</td>
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<tr>
<td>ACR 105</td>
<td>Refrigerant Management and Recovery</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL UNITS 10

ACR 101  Air Conditioning, Heating, and Refrigeration: Mechanical (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU

Introduction to basic mechanical theory of air conditioning, heating and refrigeration. Application of principles and techniques to include system components and their interrelated functions, safety procedures, tools, and equipment.

ACR 102  Air Conditioning, Heating, and Refrigeration: Electrical (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU

Introduction to the fundamentals and application of electrical theory as related to air conditioning, heating and refrigeration. Study of basic electrical theory, alternating current, electrical controls, motors, schematics, and electrical meters.

ACR 103  Air Conditioning, Heating, and Refrigeration: Heating (3)
1½ hours lecture - 4½ hours laboratory
Recommended Preparation: ACR 101, ACR 102
Transfer acceptability: CSU

Applied theory and principles used for the different types of heating systems for personal comfort and general purpose heating. Course topics include gas, electrical, solar, reverse refrigeration cycle heat pumps. Theory and application of dual fuel heating systems and oil heat. Course will prepare students to use proper tools and test test equipment to install, troubleshoot, evaluate, and perform appropriate corrective action and repairs.

ACR 105  Refrigerant Management and Recovery (1)
½ hour lecture - ½ hours laboratory
Transfer acceptability: CSU

History, theory and understanding of the United States Environmental Protection Agency regulations as set forth under Section 608 of the Clean Air Act of 1990, which described requirements for recycling ozone-depleting refrigerants. Preparation to take the EPA certification exam.

ACR 110  Advanced Air Conditioning, Heating and Refrigeration (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: ACR 101
Transfer acceptability: CSU

Theory, advanced principles and techniques of air conditioning and refrigeration. EPA regulations and safety requirements; complex control systems; chilled water systems, associated pumps and piping; and the installation, troubleshooting, repair, and maintenance of residential and small commercial units.

ACR 112  HVAC Controls and Automation (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: ACR 102
Recommended Preparation: ACR 101
Transfer acceptability: CSU

Introduction to applied theory, principles, techniques and history used in Building Automation to monitor and control Heating, Ventilation and Air Conditioning (HVAC) systems to maintain personnel comfort, Indoor Air Quality (IAQ) and system efficiency. Course topics include Direct Digital Controls (DDC), programmable controllers, configurable controllers, multi-zone systems, communication protocols, control system monitoring and economizers to reduce energy usage.

Alcohol and Other Drug Studies (AODS)

Contact the Program Coordinator for further information.
760-744-1150, ext. 2188
Office: MD-243

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

For transfer information, consult a Palomar College Counselor.

PROGRAM OF STUDY

Alcohol and Other Drug Studies (AS, CA)

Provides the student with the academic training and hands on experience for entry-level employment in delivery of alcohol and other drug treatment services in agency settings and serves as a preparation for California state examinations as a certified addictions treatment counselor by CAADAC and as a certified alcoholism and drug abuse counselor by CAADAC.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 150</td>
<td>Introduction to Alcohol and Other Drug Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 155</td>
<td>The Physiology and Pharmacology of Psychoactive Drugs</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 160</td>
<td>Prevention, Intervention, and Education</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 225</td>
<td>Psychology of Abnormal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 250</td>
<td>Group Leadership and Process</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 255</td>
<td>Case Management, Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 260</td>
<td>Chemical Dependency Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/AODS 299</td>
<td>Directed Field Experience II</td>
<td>6</td>
</tr>
</tbody>
</table>

Group One (Select 3 units)

SOC 100  Introduction to Sociology                                     | 3     |
SOC 110  Social Problems                                                | 3     |

See Catalog addendum at http://www.palomar.edu/catalog
### COURSE OFFERINGS

**AODS 140**  
Introduction to Psychological and Social Services  
3 hours lecture - 3 hours laboratory  
**Note:** Cross listed as PSYC 140/SOC 140  
**Transfer acceptability:** CSU  
Supervised internship in a human service agency or an alcohol and other drug treatment facility. An overview of the field of human services, including alcohol and other drug treatment. The roles of psychologists, sociologists, social workers, family therapists, social service assistants and addiction counselors are compared and contrasted, and the issues they deal with are described. Through cooperative efforts of provider agencies, the instructor, and the student, the skills utilized for entry-level employment are observed, practiced, and evaluated under supervision.

**AODS 150**  
Introduction to Alcohol and Other Drug Studies  
3 hours lecture  
**Note:** Cross listed as PSYC 150/SOC 150  
**Transfer acceptability:** CSU  
Examines alcohol, tobacco and psychoactive drugs in society. Biological, psychological and socio-cultural factors of drug abuse and dependence will be explored. The impact of addiction on families and society; contemporary treatment techniques, and the addiction counseling profession will be covered.

**AODS 155**  
The Physiology and Pharmacology of Psychoactive Drugs  
3 hours lecture  
**Note:** Cross listed as PSYC 155/SOC 155  
**Transfer acceptability:** CSU  
This course will examine how psychoactive drugs affect the nervous system. Ways of classifying drugs will be identified including the processes of physical and psychological dependence, tolerance, withdrawal, and genetic predispositions. Temporary and long-term affective, behavioral, cognitive, biological, and social consequences of psychoactive drug use will be explored, including disorders such as Korsakoff's syndrome and other nutritional deficiencies.

**AODS 160**  
Prevention, Intervention, and Education  
3 hours lecture  
**Note:** Cross listed as PSYC 160/SOC 160  
**Transfer acceptability:** CSU  
This course will review historical and contemporary approaches for chemical dependency, including prevention, intervention, and education. It will analyze the progression of substance abuse and chemical dependency disorders and will evaluate types of prevention, education, and intervention strategies.

**AODS 250**  
Group Leadership and Process  
3 hours lecture  
**Note:** Cross listed as PSYC 250/SOC 250  
**Transfer acceptability:** CSU  
An introduction to the dynamics of group interaction, with emphasis upon the individual's firsthand experience as the group studies itself under supervision. Problems of communication, effective emotional responses, and personal growth will be highlighted. The emphasis will be upon group process as a means of changing behavior.

**AODS 255**  
Case Management, Law and Ethics  
3 hours lecture  
**Note:** Cross listed as PSYC 255/SOC 255  
**Transfer acceptability:** CSU  
This course reviews the principles and practice of case management in addiction treatment including the processes of intake, screening, assessment, treatment planning, referral, and documentation. Professional and ethical codes of conduct and behavior are also reviewed and emphasized.

**AODS 260**  
Chemical Dependency Family Counseling  
3 hours lecture  
**Note:** Cross listed as PSYC 260/SOC 260  
**Transfer acceptability:** CSU  
This course is designed to explore methods of assisting family members and others to understand and to cope with the alcohol and drug abuse of alcoholics and addicts. Several family therapy modalities will be explored. The approach will be experiential in format and students will participate in exercises that lead to the development of these skills.

**AODS 298**  
Directed Field Experience I  
5 hours lecture - 6 hours laboratory  
**Note:** Cross listed as PSYC 298/SOC 298  
**Transfer acceptability:** CSU  
Supervised internship in a human service agency or an alcohol and other drug treatment facility. The student intern will have an opportunity to observe human service providers working with clients in agency settings. Ethical guidelines for helping professions, developing cultural competence, stages of change and motivational interviewing as a helping style are discussed. Interns practice interviewing skills for increasing motivation for positive change.

**AODS 299**  
Directed Field Experience II  
6 hours lecture - 9 hours laboratory  
**Prerequisite:** A minimum grade of 'C' in AODS 140/SOC 140/PSYC 140 or AODS 298/SOC 298/PSYC 298 and AODS 250/PSYC 250 and AODS 255/SOC 255/PSYC 255  
**Note:** Cross listed as PSYC 299/SOC 299  
**Transfer acceptability:** CSU  
Supervised internship in an alcohol and other drug treatment facility. This course emphasizes advanced concepts in chemical dependency. Students refine their skills for the 12 core functions of effective clinical practice and compile a professional portfolio in preparation for the state certifying written exam. This course meets the 45-hour supervised practicum requirement for the California Certification Board of Alcohol and Drug Counselors.

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**American Indian Languages**  
See American Indian Studies

**American Indian Studies (AIS)**  
Contact the American Indian Studies Department for further information.  
760-744-1150, ext. 2425  
Office: MD-140  
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages). For transfer information, consult a Palomar College Counselor.

**PROGRAM OF STUDY**

**American Indian Studies (CA)**  
The Certificate in American Indian Studies provides cultural knowledge and insight recognized by prospective employers such as state, federal, and tribal government agencies. Earning an AIS Certificate affords increased employment opportunities in such fields as archaeology, art, museums, education, social services, and resource management.
CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 100</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 101</td>
<td>The American Indian Frontier</td>
<td>3</td>
</tr>
<tr>
<td>or AIS 102</td>
<td>Indian/U.S. Political System</td>
<td>3</td>
</tr>
<tr>
<td>AIS 105</td>
<td>History of Native American Arts</td>
<td>3</td>
</tr>
<tr>
<td>AIS 125</td>
<td>American Indians Today</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTH 130</td>
<td>Prehistoric Cultures of North America</td>
<td>3</td>
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</table>

Electives

Complete a minimum of 6 units chosen from at least two categories.

**Arts**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AIS 104</td>
<td>The Music of Native America</td>
<td>3</td>
</tr>
<tr>
<td>AIS 135</td>
<td>California Indian Arts</td>
<td>3</td>
</tr>
<tr>
<td>AIS 145</td>
<td>American Indian Literature</td>
<td>3</td>
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<tr>
<td>AIS 146</td>
<td>American Indian Theatre, Dance and Music</td>
<td>3</td>
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**History**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AIS 110</td>
<td>History of the Plains Indian</td>
<td>3</td>
</tr>
<tr>
<td>AIS 115</td>
<td>A History of Southwest Indians</td>
<td>3</td>
</tr>
<tr>
<td>AIS 120</td>
<td>Indians of the Americas</td>
<td>3</td>
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<tr>
<td>AIS/ANTH 140</td>
<td>The Original Californians</td>
<td>3</td>
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**Language**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AIS 107A</td>
<td>Elementary Luiseño IA</td>
<td>3</td>
</tr>
<tr>
<td>AIS 107B</td>
<td>Elementary Luiseño IB</td>
<td>3</td>
</tr>
<tr>
<td>AIS 108A</td>
<td>Elementary Luiseño II A</td>
<td>3</td>
</tr>
<tr>
<td>AIS 108B</td>
<td>Elementary Luiseño II B</td>
<td>3</td>
</tr>
<tr>
<td>AIS 151</td>
<td>Elementary Cupeño IA</td>
<td>3</td>
</tr>
<tr>
<td>AIS 152</td>
<td>Elementary Cupeño IB</td>
<td>3</td>
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<tr>
<td>AIS 153</td>
<td>Elementary Cupeño II A</td>
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<tr>
<td>AIS 154</td>
<td>Elementary Cupeño II B</td>
<td>3</td>
</tr>
<tr>
<td>AIS 167A</td>
<td>Elementary Cahuilla IA</td>
<td>3</td>
</tr>
<tr>
<td>AIS 167B</td>
<td>Elementary Cahuilla IB</td>
<td>3</td>
</tr>
<tr>
<td>AIS 266A</td>
<td>Cahuilla IIIA</td>
<td>3</td>
</tr>
<tr>
<td>AIS 266B</td>
<td>Cahuilla IIIB</td>
<td>3</td>
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**Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>AIS 150</td>
<td>American Indian Philosophy and Religion</td>
<td>3</td>
</tr>
<tr>
<td>AIS 155</td>
<td>American Indian Community Development</td>
<td>3</td>
</tr>
<tr>
<td>AIS 165</td>
<td>Native Women in the Americas</td>
<td>3</td>
</tr>
<tr>
<td>AIS 175</td>
<td>American Indian Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS: 21

COURSE OFFERINGS

**AIS 100** Introduction to American Indian Studies (3)

3 hours lecture

Transfer acceptability: CSU; UC

American Indian cultures in North America are studied from early cultures to contemporary society. A cross disciplinary approach examines applicable methods and theories from sciences and humanities.

**AIS 101** The American Indian Frontier From Colonialism Through the Present (3)

3 hours lecture

Note: This course plus AIS 102 meets the State requirement in American History and Institutions.

Transfer acceptability: CSU; UC

The historical, economic, and cultural development of the American Indian in relation to European and American contact. Extensive use and analysis of historical sources from the colonial period through the present.

**AIS 102** The American Indian and the U.S. Political System (3)

3 hours lecture

Note: This course plus AIS 101 meets the State requirement in American History and Institutions.

Transfer acceptability: CSU; UC – maximum credit for one course: AIS 102, AIS 110, CS 102

Surveys the role of American Indian people in U.S. and state political systems and institutions. Includes an examination of tribal government political structures and functions from pre-contact period to contemporary, as well as analysis of Federal Indian Policy and leading issues and organizations that affect American Indian communities.

**AIS 104** The Music of Native America (3)

3 hours lecture

Transfer acceptability: CSU; UC

Surveys both the traditional and contemporary Native American musical styles with an emphasis on North America. The impacts of Western influence are examined through the socio-cultural context of Native music.

**AIS 105** History of Native American Arts (3)

3 hours lecture

Transfer acceptability: CSU; UC

An historical survey encompassing North, Meso, and South American Indian arts from pre-Columbian through contemporary periods. American Indian art forms are examined in terms of cultural context, history of styles, and artists.

**AIS 107A** Elementary Luiseño IA (3)

3 hours lecture

Transfer acceptability: CSU; UC

This elementary level course is a study of the fundamentals of the Luiseño language, one of the four indigenous languages of San Diego County. This course will include a survey of Luiseño language phonology, morphology, syntax and grammar with special emphasis on culturally relevant terminology.

**AIS 107B** Elementary Luiseño IB (3)

3 hour lecture

Prerequisite: AIS 107A

Transfer acceptability: CSU; UC

This elementary course is a continuation of AIS 107A and reviews the phonology, morphology, syntax and grammar of the Luiseño language, with continued emphasis on culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

**AIS 108A** Elementary Luiseño IIA (3)

3 hours lecture

Prerequisite: AIS 107B

Transfer acceptability: CSU; UC

This course is an elementary review of grammar, composition, and continued oral practice.

**AIS 108B** Elementary Luiseño IIB (3)

3 hours lecture

Prerequisite: AIS 108A

Transfer acceptability: CSU; UC

This elementary course is a continued review of grammar, composition, and oral practice.

**AIS 110** History of the Plains Indian (3)

3 hours lecture

Transfer acceptability: CSU; UC

An analysis of the Plains Indian. Examines lifestyles, mores, traditions, and tactics of war. Attention will be given to relations with the U.S. Government and to the background and evolution of acculturations.

**AIS 115** A History of Southwest Indians (3)

3 hours lecture

Transfer acceptability: CSU; UC

A history, transculturation, and present culture of the Southwest Indians with emphasis upon their retention of traditional customs.
AIS 120  Indians of the Americas  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
A cross cultural study of American Indian Peoples in South America, Meso America, and North America. Emphasis is placed on the contrast of societies as diverse as Incans, Amazonians, Eskimos, and Mayans.

AIS 121  Pacific Islanders  (3)  
3 hours lecture  
Note: Cross listed as AMS 121  
Transfer acceptability: CSU; UC  
An introduction to the indigenous histories of the Pacific Islands. Comparative approaches to traditionalism, colonialism, resistance, regionalism, globalism, diaspora, migration and sovereignty as related to the formation of Pacific Island identity.

AIS 125  American Indians Today  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
The development of a greater sensitivity to the American Indian through analysis of ethnocentricism exhibited in contemporary American pluralistic society. This will be done through the analysis of stereotyping, history, cultural practice, and contemporary issues.

AIS 130  Prehistoric Cultures of North America  (3)  
3 hours lecture  
Note: Cross listed as ANTH 130  
Transfer acceptability: CSU; UC  
Emphasis given to prehistoric cultural traditions of the Eastern Woodlands, Central Plains, and Far Western United States and Canada. Special concern for archaeological problems; reconstruction of these traditions and cultural changes.

AIS 135  California Indian Arts  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
Emphasis on the regional styles of California tribal arts with analysis of the social, religious, political, and cultural contributions. A combination of lectures, slides, individual projects, small group discussions, field trips, and guest artists.

AIS 140  The Original Californians  (3)  
3 hours lecture  
Note: Cross listed as ANTH 140  
Transfer acceptability: CSU; UC  
Native people of California: Their origin, language, arts, customs religion, folklore, and music. Develop a dynamic comparative grid, focusing on the persistence of tribal identities and evolution of socio-economic changes and cultural practices over time; Special emphasis on Southern California.

AIS 145  American Indian Literature  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
A survey of historical and contemporary American Indian literature. Examines traditional and contemporary genres.

AIS 146  American Indian Theatre, Dance and Music  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
A survey of the works of Native Americans in theatre, dance and music. Examines how changes in Native and Euro-American pop culture have affected the way in which Native performers represent their art, traditions, and cultural expressions.

AIS 150  American Indian Philosophy and Religion  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
The principles of American Indian philosophy and religious rites practiced prior to extensive European contacts with North American tribes, and the subsequent impact of European cultures on American Indian philosophy and religion.

AIS 151  Elementary Cupeño IA  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
Elementary grammar, composition, and oral practice.

AIS 152  Elementary Cupeño IB  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
Elementary grammar, review, composition, and continued oral practice.

AIS 153  Elementary Cupeño IIA  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
Elementary grammar, review, composition, and continued oral practice.

AIS 154  Elementary Cupeño IIB  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
Elementary grammar, review, composition, and continued oral practice.

AIS 155  American Indian Community Development  (3)  
3 hours lecture  
Transfer acceptability: CSU  
Investigation and analysis of the relationship between the American Indian and the non Indian in contemporary society. Special emphasis on fieldwork and research to explore existing programs and to develop solutions to problems originating from these programs.

AIS 165  Native Women in the Americas  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
Social and psychological comparison of the roles of native women in the Americas. Areas of emphasis shall include: kinship, childbearing, leadership, and religious roles. These will be examined in contemporary and traditional settings.

AIS 166A  Elementary Cahuilla IA  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
An introduction to the fundamentals of the Cahuilla language, one of the four indigenous languages of San Diego County. Includes a survey of Cahuilla language phonology, morphology, syntax and grammar with special emphasis on culturally relevant terminology.

AIS 166B  Elementary Cahuilla IB  (3)  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in AIS 166A  
Transfer acceptability: CSU; UC  
This elementary course is a continuation of AIS 166A and reviews the phonology, morphology, syntax and grammar of the Cahuilla Language, with continued emphasis on culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

AIS 167A  Elementary Cahuilla IIA  (3)  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in AIS 166B  
Transfer acceptability: CSU; UC  
The second half of the second year of Elementary Cahuilla. Reviews the phonology, morphology, syntax and grammar of the Cahuilla Language, with continued emphasis on culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.
AIS 175 American Indian Science and Technology (3)
3 hours lecture
Transfer acceptability: CSU; UC
An introductory course in the development of scientific ideas in American Indian cultures as compared to other cultures in terms of context, practitioners, and technological applications. Primary comparison is with conventional Western areas of physical, biological, and applied sciences derived from scientific methodology.

AIS 197 American Indian Studies Topics (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Topics in American Indian Studies. See class schedule for specific topic covered. Course title will designate subject covered.

AIS 207A Luiseno IIIA (3)
3 hours lecture
Prerequisite: AIS 108B
Transfer acceptability: CSU
This intermediate level course is a study of the Luiseno language and culture(s), focusing on intermediate level culturally relevant authentic materials. Emphasis is on developing listening, oral, reading and writing skills in order to acquire proficiency in Luiseno.

AIS 207B Luiseno IIIB (3)
3 hours lecture
Prerequisite: AIS 207A
Transfer acceptability: CSU
This intermediate level course is a continuation of the study of the Luiseno language and culture of the Luiseno people emphasizing oral, listening, and reading skills.

AIS 266A Cahuilla IIIA (3)
3 hours lecture
Prerequisite: AIS 167B
Transfer acceptability: CSU; UC
The first half of the first year of intermediate Cahuilla language and culture, focusing on intermediate-level culturally relevant authentic materials. Emphasis is on developing listening, oral, reading and writing skills in order to acquire proficiency in Cahuilla.

AIS 266B Cahuilla IIIB (3)
3 hours lecture
Prerequisite: AIS 266A
Transfer acceptability: CSU; UC
The second half of the first year of intermediate Cahuilla. A continuation of the study of the language and culture of the Cahuilla people, focusing on oral, listening, and reading skills. Culturally relevant authentic materials are incorporated to acquire proficiency in Cahuilla. Largely conducted in Cahuilla.

AIS 295 Directed Study in American Indian Studies (1, 2, 3)
3, 6, or 9 hours laboratory
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Independent study for students with demonstrated proficiency in American Indian Studies to engage in self-directed projects or research outside the context of regularly scheduled classes. Studies are supervised by an instructor.

American Sign Language (ASL)
Contact the Speech Communication/Forensics/ASL Department for further information.
760-744-1150, ext. 2405
Office: H-201J
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

American Sign Language

English Interpreting (AS, CA)
Preparation courses (for students not already competent in signing): ASL 100, 100L, 101, 101L, 105, 205, 205L, 206, and 206L.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>ASL 110 Awareness of Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>ASL 115 Perspectives on Deafness</td>
<td>3</td>
</tr>
<tr>
<td>ASL 208 Interpreting as a Profession</td>
<td>3</td>
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<tr>
<td>ASL 210 Interpreting I</td>
<td>4</td>
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<tr>
<td>ASL 211 Interpreting II</td>
<td>4</td>
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<tr>
<td>ASL 215 Interpreting III</td>
<td>4</td>
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<tr>
<td>ASL 216 Interpreting IV</td>
<td>4</td>
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<tr>
<td>ASL 220 Specialized Settings of Interpreting</td>
<td>3</td>
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<tr>
<td>ASL 298 Fieldwork in Interpreting</td>
<td>1.5</td>
</tr>
<tr>
<td>ENG 100 English Composition</td>
<td>4</td>
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</tbody>
</table>

US TOTAL UNITS 33.5

Upon successful completion of this program, students may elect to take a proficiency exam to determine eligibility for entry-level employment as ASL/English interpreters.

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

ASL 97 Topics in American Sign Language (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

The course objectives will depend on the specific topic covered. A set of objectives will be developed for each topic class and included in an outline developed by the instructor.

ASL 100 American Sign Language I (4)
4 hours lecture
Transfer acceptability: CSU; UC
Introduction to the practice and use of American Sign Language.

ASL 100L American Sign Language I (Lab) (1.5, 1)
1½ - 3 hours laboratory
Prerequisite: A minimum grade of "C" in ASL 100, or concurrent enrollment in ASL 100
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Individualized program intended for students who wish to practice, use, and improve their beginning ASL skills. Video, software, and workbooks in the American Sign Language/English Interpreting Lab can help students improve understanding of basic ASL sentences and stories. Through the use of video recording equipment, students will have the opportunity to practice expressive signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 100.

ASL 101 American Sign Language II (4)
4 hours lecture
Prerequisite: A minimum grade of "C" in ASL 100
Transfer acceptability: CSU; UC
Continued development in American Sign Language.
ASL 101L  American Sign Language II (Lab)  
1½ - 3 hours laboratory  
**Prerequisite:** A minimum grade of 'C' in ASL 101, or concurrent enrollment in ASL 101  
**Note:** Pass/No Pass grading only  
**Transfer acceptability:** CSU/UC (pending)  
Individualized program intended for students who wish to practice, use, and improve advanced-beginning ASL skills. Video, software, and workbooks in the American Sign Language/English Interpreting Lab can help students improve understanding of basic ASL sentences and stories. Through the use of video recording equipment, students will have the opportunity to practice expressive signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 101.

ASL 105  Fingerspelling  
3 hours lecture  
**Prerequisite:** A minimum grade of 'C' in ASL 100  
**Transfer acceptability:** CSU  
Introductions to the American Manual alphabet (fingerspelling), including numbers, loan signs, acronyms and abbreviations commonly used in the Deaf community. Extensive drills and practice in both expressive and receptive skills.

ASL 110  Awareness of Deaf Culture  
3 hours lecture  
**Transfer acceptability:** CSU; UC  
An introduction to American Deaf Culture, the history, the community, and the language. Deaf cultural values, characteristics, and dynamics will be discussed as well as issues related to minority dynamics, the double/multiple minority experience, including but not limited to, Deaf African-Americans, Deaf Latinas/Latinos, Deaf Women, Deaf gays/lesbians, Deaf-blind, Deaf senior citizens, and the multiple combinations of these. Organizations and individual perceptions of self in relation to group identity, along with political views as examined through articles, books, and videotaped interviews will be studied.

ASL 115  Perspectives on Deafness  
3 hours lecture  
**Transfer acceptability:** CSU  
A general orientation to the Deaf community with an overview of the historical, linguistic, philosophical, psychological, educational and social aspects of the Deaf.

ASL 197  Topics in American Sign Language  
(5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.  
**Transfer acceptability:** CSU  
Topics in American Sign Language. See class schedule for specific topics covered. Course title will designate subject covered.

ASL 205  American Sign Language III  
4 hours lecture  
**Prerequisite:** A minimum grade of 'C' in ASL 101  
**Transfer acceptability:** CSU; UC  
Intermediate language, phrasing, and communication skills in American Sign Language. Each ASL level consists of additional instruction in vocabulary, grammar and phrasing, receptive and expressive skills development and an ever continuing awareness/understanding of American Deaf Culture whose language is ASL.

ASL 205L  American Sign Language III (Lab)  
1½ - 3 hours laboratory  
**Prerequisite:** A minimum grade of 'C' in ASL 205, or concurrent enrollment in ASL 205  
**Note:** Pass/No Pass grading only  
**Transfer acceptability:** CSU/UC (pending)  
Individualized program intended for students who wish to practice, use, and improve advanced-beginning ASL skills. Video, software, and workbooks in the American Sign Language/English Interpreting Lab can help students improve understanding of beginning-intermediate ASL sentences and stories. Through the use of video recording equipment, students will have the opportunity to practice beginning-intermediate expressive signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 205. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 205.

ASL 206  American Sign Language IV  
4 hours lecture  
**Prerequisite:** A minimum grade of 'C' in ASL 205  
**Transfer acceptability:** CSU; UC  
Advanced language, phrasing, and communication skills in American Sign Language along with continued development of Deaf cultural awareness and cross-cultural functionality.

ASL 206L  American Sign Language IV (Lab)  
1½ - 3 hours laboratory  
**Prerequisite:** A minimum grade of 'C' in ASL 206, or concurrent enrollment in ASL 206  
**Note:** Pass/No Pass grading only  
**Transfer acceptability:** CSU pending  
Individualized program intended for students who wish to practice, use, and improve advanced-beginning ASL skills. Video, software, and workbooks in the American Sign Language/English Interpreting Lab can help students improve understanding of intermediate ASL sentences and stories. Through the use of video recording equipment, students will have the opportunity to practice intermediate expressive signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 206. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 206.

ASL 208  Interpreting as a Profession  
3 hours lecture  
**Prerequisite:** A minimum grade of 'C' in ASL 206  
**Transfer acceptability:** CSU  
Develops insight into the value of interpreting as a profession. Includes instruction on national testing standards, preparation for certification, and the necessity of ethics as outlined in the Interpreting Code of Ethics.

ASL 210  Interpreting I  
4 hours lecture  
**Prerequisite:** A minimum grade of 'C' in ASL 206  
**Corequisite:** ASL 210L  
**Recommended preparation:** ASL 110, ENG 100 and ASL 115  
**Transfer acceptability:** CSU  
Introductory knowledge and skills necessary for beginning ASL-English interpreting tasks, including analysis of both source and target language discourse. Emphasis is on thorough and structured analysis of individual student interpretations, translations, and revisions with attention to cultural sensitivity. Primary language of instruction for class lectures and discussion will be ASL.

ASL 210L  Interpreting I Lab  
3 hours laboratory  
**Corequisite:** ASL 210  
**Transfer acceptability:** CSU  
Utilizes technology and community resources to develop beginning interpreting skills, American Sign Language and/or English language proficiencies, and understanding of and respect for Deaf cultural values.
**COURSE OFFERINGS**

**American Sign Language-American Studies (AMS)**

**AMS 100**  
American Culture and Identity  
3 hours lecture  
*Transfer acceptability: CSU, UC*  
Identity and values, such as the arts, beliefs, and social forms, as expressed in lifestyles. Regional and interdisciplinary approaches will be used to build a dynamic model of American culture and its impact on Americans and the world.

**AMS 105**  
American West: Images and Identities  
3 hours lecture  
*Transfer acceptability: CSU, UC*  
The study and exploration of the unique role of the American West in shaping Native American and immigrant cultures is revealed through varied images in visual arts, literature, and music. These images, from deep spiritual metaphors to progressive impulses, influenced American values and dreams that prevail into today's global arena. Students will examine and analyze various primary sources available through archives and virtual exhibits.

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**American Sign Language**

**ASL 211**  
Interpreting II  
4 hours lecture  
*Prerequisite: A minimum grade of 'C' in ASL 208, ASL 110, and ASL 210*  
*Corequisite: ASL 211L*  
*Recommended preparation: ENG 100*  
*Transfer acceptability: CSU*  
Designed to improve student ability to perform the components involved in the process of interpreting as learned in Interpreting I. Primary emphasis is placed on the development of cognitive and linguistic skills, consecutive interpretation, and interpretation of interactive video dialogues between Deaf and hearing people. Skills learned will be applied to basic simultaneous interpreting tasks. Further development of language fluency in both American Sign Language (ASL) and English should occur as a result of this course, as instruction will occur in both languages.

**ASL 211L**  
Interpreting II Lab  
3 hours laboratory  
*Corequisite: ASL 211*  
Utilize technology and community resources to develop beginning-intermediate interpreting skills, American Sign Language and/or English language proficiencies, and understanding of and respect for Deaf cultural values.

**ASL 215**  
Interpreting III  
4 hours lecture  
*Prerequisite: A minimum grade of 'C' in ASL 211*  
*Corequisite: ASL 215L*  
*Recommended preparation: ASL 220, ENG 100*  
*Transfer acceptability: CSU*  
This course is a continuation of Interpreting II. Primary emphasis is placed on the development of simultaneous ASL/English interpreting/transliterating tasks. Further development of language fluency in both American Sign Language (ASL) and English should occur as a result of this course. Development of multi-tasking skills enables students to begin interpreting more complex discourse such as that in a higher register or of substantive cognitive-academic content. Students are expected to have attained a reasonable level of competency in both ASL and English in order to have access to class lectures and participate fully in class discussions and activities, as instruction will occur in both languages.

**ASL 215L**  
Interpreting III Lab  
3 hours laboratory  
*Corequisite: ASL 215*  
*Transfer acceptability: CSU*  
Utilize technology and community resources to develop beginning-intermediate interpreting skills, American Sign Language and/or English language proficiencies, and understanding of and respect for Deaf cultural values.

**ASL 216**  
Interpreting IV  
4 hours lecture  
*Prerequisite: A minimum grade of 'C' in ASL 215*  
*Recommended preparation: ENG 100*  
*Transfer acceptability: CSU*  
This course is a continuation of Interpreting III. Emphasis is placed on the enhancement of simultaneous ASL/English interpreting of complex discourse through increased fluency, speed and accuracy. Students will improve equivalence between source and target language while performing simultaneous interpreting and/or transliterating tasks. Students are expected to have attained a reasonable level of competency in both ASL and English in order to have access to class lectures and participate fully in class discussions and activities, as instruction will occur in both languages.

**ASL 216L**  
Interpreting IV Lab  
1 hour laboratory  
*Corequisite: ASL 216*  
*Transfer acceptability: CSU*  
Utilize technology and community resources to develop intermediate interpreting skills, American Sign Language and/or English language proficiencies, and understanding of and respect for Deaf cultural values. Emphasis is placed on the enhancement of simultaneous ASL/English interpreting of complex discourse through increased fluency, speed and accuracy. Students will improve equivalence between source and target language while performing simultaneous interpreting and/or transliterating tasks by making principled choices about meaning and impact.

**ASL 220**  
Specialized Settings of Interpreting  
3 hours lecture  
*Prerequisite: A minimum grade of 'C' in ASL 206, or concurrent enrollment in ASL 206*  
*Transfer acceptability: CSU*  
This course discusses professional, ethical, technical, and logistical factors involved when interpreting between American Sign Language and spoken English in various settings. Specialized settings introduced in this course include: educational, mental health, legal, medical, social services, business, religious, platform, and performing arts. Telephone, Deaf-blind and oral interpreting will also be discussed. The primary language of instruction will be American Sign Language.

**ASL 229**  
Fieldwork in Interpreting  
1.5 hours laboratory  
*Prerequisite: A minimum grade of 'C' in ASL 216, or concurrent enrollment in ASL 216*  
*Transfer acceptability: CSU*  
The purpose of this course is for students to apply skills and knowledge gained from previous interpreting coursework to actual interpreting assignments. Students will begin interpreting or transliterating, with appropriate supervision and in appropriate situations, for actual assignments. Students will have opportunities to observe qualified working interpreters in a variety of settings. Community service and classroom seminar discussions on professional, ethical, technical and logistical aspects of interpreting will also be included in course content. Students must demonstrate adequate ASL to English and English to ASL performance on an exit exam.

Contact the American Indian Studies Department for further information.  
760-744-1150, ext. 2425  
Office: MD-140  
For transfer information, consult a Palomar College Counselor.
An introduction to the indigenous histories of the Pacific Islands. Comparative approaches to traditionalism, colonialism, resistance, regionalism, globalization, diaspora, migration and sovereignty as related to the formation of Pacific Island identity.

AMS 182  Introduction to Arts Management  
9 hours laboratory  
Note: Cross listed as ART 182/DNCE 182/MUS 182/TA 182  
Transfer acceptability: CSU  
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

AMS 183  Internship in Arts Management  
9 hours laboratory  
Prerequisite: A minimum grade of "C" in ART/DANCE/MUS or TA 182  
Note: Cross listed as ART 183/DNCE 183/MUS 183/TA 183  
Transfer acceptability: CSU  
Practical experience in arts management in the visual and performing arts.

AMS 200  Race, Class, and Ethnic Groups in America  
3 hours lecture  
Note: Cross listed as MCS 200/SOC 200  
Transfer acceptability: CSU; UC – AMS/MCS/SOC 200 combined: maximum credit, one course  
C-ID SOCI 150  
This course is designed to introduce the topics of intergroup relations in general to superordinate-subordinate relations in particular, as exemplified in various racial, ethnic, social class, and cultural groups. Emphasis is primarily on contemporary relations in the United States, although a comparative perspective is also offered.

Anthropology (ANTH)  
Contact the Behavioral Sciences Department for further information.  
760-744-1150, ext. 2330  
Office: MD-261  
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).  

Programs of Study  
Students desiring a career in the field of archaeology or other fields of anthropology have the option of selecting a program leading to the Associate in Arts Degree and/or one or two programs leading to Certificates of Achievement, depending upon their needs and desires.

Anthropology (AA-T)  
The Associate in Arts in Anthropology for Transfer provides students with the holistic study of human society through a course into the CSU system for completion of a Baccalaureate degree program in Anthropology. Depending on the classes selected, students may receive humanities, multicultural, and laboratory or non-laboratory science credit on general education patterns for both the UC and CSU systems. The Associate in Arts in Anthropology for Transfer emphasizes the four-field approach central to American Anthropology in which students are introduced to the holistic integration of the biological, cultural, linguistic, and material cultural approaches to the study of human beings. Through their courses in Biological Anthropology program students will gain a basic understanding of the evidence, patterns, and genetic basis, of both human and primate evolution as well as the biological underpinnings of human culture. Cultural Anthropology coursework explores the universal patterns of human cultural organization, the origins and function of the arts and religion, the central role of kinship, the nature of gender, and the dynamics of cultural evolution. The structure and complexity of human language and its critical role in the human experience is the subject of Anthropological Linguistics courses.

A wide range of Archaeology courses are also available by which students may gain the tools to explore past and present societies thorough knowledge of the production, use, and discard of human material culture.

Pursuant to SB1440, the following completion requirements must be met:

1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2) Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

AA-T Transfer Major

Program Requirements

ANTH 100  Introduction to Biological Anthropology and  
ANTH 100L  Biological Anthropology Laboratory or  
ANTH 101  Introduction to Biological Anthropology  
ANTH 105  Introduction to Cultural Anthropology  
ANTH 110  Introduction To Archaeology  

List A: Select one course  
ANTH 107  Language and Culture  
ANTH 135  Magic, Witchcraft, and Religion  
AIS 100  Introduction to American Indian Studies  
MATH 120  Elementary Statistics or  
PSYC/SOC 205  Statistics for the Behavioral Sciences  

List B: Select one course, or any course from List A not already used

Science Methods

PSYC 230  Research Methods in Psychology  

Sciences

ES 100  The Earth As a System: Case Studies of Change In Space and Time and  
ES 100L  Earth Systems Laboratory  
GEOG 120  Digital Earth: Introduction to Geographic Information Systems  
GEOL 100  Physical Geology and  
GEOL 100L  Geology Laboratory  
ZOO 200  Anatomy  

List C: Select one course, or any course from List A or B not already used

ANTH 115  Comparative Societies  
ANTH 120  Archaeological Excavation  
ANTH 121  Cultural Resource Management  
ANTH 125  Evolution, Science and Religion  
ANTH /AIS 126  Cultures of Africa  
ANTH /AIS 130  Prehistoric Cultures of North America  
ANTH 137  Medical Anthropology: Culture, Illness and Healing  
ANTH/AIS 140  The Original Californians  
ANTH/CS 155  Ancient Civilizations of Meso-America  
ANTH 205  Prehistoric Archaeological Excavation  
ANTH 206  Historical Archaeological Excavation  
ANTH 210  Archaeological Surveying
ANTH 215 Archaeological Laboratory Analysis 3
ANTH 220 Advanced Archaeological Surveying 3
ANTH 225 Historical Archaeology 3

**TOTAL UNITS** 18 - 22

*Course is required major preparation at CSU San Marcos (CSUSM). Students planning to transfer to CSUSM are advised to select these courses to complete this degree. For more information on this major at CSUSM, please refer to the articulation agreement at ASSIST.ORG.

**Archaeological Excavator (CA)**
Prepares student for employment as an archaeological site excavator.

**CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>ANTH 100 Introduction to Biological Anthropology</td>
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<td>ANTH 105 Introduction to Cultural Anthropology</td>
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<tr>
<td>ANTH 110 Introduction to Archaeology</td>
<td>3</td>
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<td>*ANTH 120 Archaeological Excavation</td>
<td>3</td>
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<tr>
<td>*ANTH/AIS 130 Prehistoric Cultures of North America</td>
<td>3</td>
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<td>*ANTH/AIS 140 The Original Californians or ANTH 121 Cultural Resource Management</td>
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<td>*ANTH 297 Special Problems in Archaeology</td>
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<tr>
<td>*ANTH 205 Prehistoric Archaeological Excavation</td>
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**TOTAL UNITS** 22

* Classes marked with an asterisk (*) are transferable for up to 6 units of upper-division credit for the Anthropology major at CSU San Marcos.

**Archaeological Surveyor and Laboratory Assistant (CA)**
Prepares student for employment as an archaeological surveyor and laboratory assistant.

**CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ANTH 100 Introduction to Biological Anthropology</td>
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<td>ANTH 105 Introduction to Cultural Anthropology</td>
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<td>ANTH 110 Introduction to Archaeology</td>
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<td>*ANTH 120 Archaeological Excavation</td>
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<td>*ANTH 220 Advanced Archaeological Surveying or *ANTH 220 Prehistoric Archaeological Excavation</td>
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<td>*ANTH 210 Archaeological Surveying</td>
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<td>*ANTH 215 Archaeological Laboratory Analysis</td>
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**TOTAL UNITS** 21

* Classes marked with an asterisk (*) are transferable for up to 6 units of upper-division credit for the Anthropology major at CSU San Marcos.

**Archaeology (AA)**

Provides the student with in-depth training that will enhance employment opportunities as a professional archaeologist as well as providing a solid foundation for a B.A. and advanced degrees in Anthropology/Archaeology.

**A.A. DEGREE MAJOR**

**Program Requirements**

<table>
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<tbody>
<tr>
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<td>ANTH 105 Introduction to Cultural Anthropology</td>
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<td>ANTH 110 Introduction to Archaeology</td>
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<td>*ANTH 120 Archaeological Excavation</td>
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<td>ANTH 121 Cultural Resource Management</td>
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<tr>
<td>ANTH/AIS 130 Prehistoric Cultures of North America</td>
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<tr>
<td>or *ANTH/AIS 140 The Original Californians</td>
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<td>*ANTH 205 Prehistoric Archaeological Excavation</td>
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<td>*ANTH 210 Archaeological Surveying</td>
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<td>*ANTH 215 Archaeological Laboratory Analysis</td>
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<td>*ANTH 225 Historical Archaeology</td>
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**Electives (Select 5 units from Groups One and/or Two)**

**Group One**

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<td>*AIS 150 American Indian Philosophy and Religion</td>
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<td>ANTH 107 Language and Culture</td>
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<tr>
<td>ANTH 125 Evolution, Science &amp; Religion</td>
<td>3</td>
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<td>ANTH/AS 126 Cultures of Africa</td>
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<td>ANTH 135 Magic, Witchcraft, and Religion</td>
<td>3</td>
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<tr>
<td>ANTH/CS 155 Ancient Civilizations of Meso America</td>
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<td>ANTH 296 Special Problems in Anthropology or GEOL 100 Physical Geology</td>
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**Group Two (strongly recommended for focus on technical skills)**

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<th>Course</th>
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<tr>
<td>*ANTH 100L Biological Anthropology Laboratory</td>
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<tr>
<td>ANTH 197 Topics in Archaeology</td>
<td>1 - 3</td>
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<td>ANTH 206 Historical Archaeological Excavation</td>
<td>3</td>
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<tr>
<td>*ANTH 220 Advanced Archaeological Surveying or *ANTH 297 Special Problems in Archaeology</td>
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<td>ANTH 298 Internship in Archaeology</td>
<td>1 - 3</td>
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<tr>
<td>DT/ENGR 101 AutoCAD Intro to Computer Aided Drafting</td>
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<tr>
<td>*CE 150 Cooperative Education Internship</td>
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<tr>
<td>GEOG 120 Digital Earth: Introduction to Geographic Information Systems</td>
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<tr>
<td>GEOG 132 Database Mgmt/Data Acquisition</td>
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<td>GEOG 134 GIS Applications</td>
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<td>GEOG 136 Intermediate ArcGIS: GIS Analysis</td>
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<td>GEOG 138 GIS Internship</td>
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<td>PHOT 130 Digital Darkroom I</td>
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<td>PSYC/SOC 205 Statistics for the Behavioral Sciences</td>
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</table>

**TOTAL UNITS** 35

* Classes marked with an asterisk (*) are transferable for up to 6 units of upper-division credit for the Anthropology major at CSU San Marcos.

**COURSE OFFERINGS**

**ANTH 100 Introduction to Biological Anthropology**

3 hours lecture

**Note:** Not open to students with prior credit in ANTH 101

**Transfer acceptability:** CSU; UC – ANTH 100/100L and 101 combined: max credit, 4 units

Human bio cultural origins. The place of humans in nature. Fossil evidence for human and other primate evolution; genetic variability; primate behavior; relationship of physical and cultural adaptations.

**ANTH 100L Biological Anthropology Laboratory**

3 hours laboratory

**Note:** Not open to students with prior credit in ANTH 101

**Prerequisite:** A minimum grade of 'C' in ANTH 100, or concurrent enrollment in ANTH 100

**Transfer acceptability:** CSU; UC

This laboratory course provides an introduction to the methods and techniques used in research in physical/biological anthropology. The topics under study include: the scientific method, principles of evolution, human genetics, human osteology, anthropometrics, forensic anthropology, anatomy and behavior of living nonhuman primates, and paleoanthropology.
ANTH 101  Introduction to Biological Anthropology  
3 hours lecture - 3 hours laboratory  
Note: Not open to students with prior credit in ANTH 100 or 100L  
Transfer acceptability: CSU; UC  
The lecture and laboratory course provides an introduction to the methods and techniques used in research in biological anthropology. The topics under study include: the scientific method, principles of evolution, human genetics, human osteology, anthropometrics, forensic anthropology, anatomy and behavior of living nonhuman primates, and paleoanthropology.

ANTH 105  Introduction to Cultural Anthropology  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID ANTH 120  
An introduction to the study of concepts, theories, and methods used in the comparative study of sociocultural systems. The course typically includes subjects such as subsistence patterns, social and political organization, language and communication, family and kinship, religion, the arts, social inequality, ethnicity, gender, culture change and the application of anthropological perspectives to contemporary issues.

ANTH 107  Language and Culture  
3 hours lecture  
Transfer acceptability: CSU; UC  
An introduction to linguistic anthropology, the study of language, culture and society from an anthropological perspective. Topics include the biology of language, anthropological theories of language origin, language structure, the relationship between language and culture, language variation, and nonverbal communication.

ANTH 110  Introduction to Archaeology  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID ANTH 150  
An introduction covering the history, objectives, and methods of archaeology; significant discoveries throughout the old and new worlds, and the history and nature of culture as revealed by archaeology as an anthropological study. Field studies in local areas may be included.

ANTH 115  Comparative Societies  
3 hours lecture  
Transfer acceptability: CSU; UC  
A survey of the world's diverse peoples and customs as presented in films, lectures, and case study readings.

ANTH 120  Archaeological Excavation  
1 hour lecture - 6 hours laboratory  
Transfer acceptability: CSU  
Archaeological field techniques to include a minimum of 90 hours of in field experience. Course will include excavation, use of instruments/tools, and preparation of a project analysis or report.

ANTH 121  Cultural Resource Management  
3 hours lecture  
Recommended preparation: ANTH 120  
Transfer acceptability: CSU  
The historical, legal, and operational contexts of Cultural Resource Management (CRM or Applied Archaeology). Historical and legal contexts focus on key legislation, such as the National Historic Preservation Act and the California Environmental Quality Act. The operational context focuses on the phases of CRM research in the context of technological innovations, budget and time constraints, Native American consultation, and the goals of CRM technical reports.

ANTH 125  Evolution, Science and Religion  
3 hours lecture  
Transfer acceptability: CSU; UC  
The course focuses on the long-standing debate surrounding biological evolution and various religious views of creation. The evidence and arguments offered for and against evolution and creationist world views are examined in the context of science and the scientific method, the influence of cultural and personal values, the nature and use of evidence, and the difference between knowledge and belief.

ANTH 126  Cultures of Africa  
3 hours lecture  
Note: Cross listed as AS 126  
Transfer acceptability: CSU; UC  
Introduction to the indigenous peoples and cultures of Africa. Brief prehistoric and historic background of the continent. Comparative study of traditional cultures representative of the continent's diversity. Focus on social, economic, political, religious and aesthetic life, and culture change.

ANTH 130  Prehistoric Cultures of North America  
3 hours lecture  
Note: Cross listed as AIS 130  
Transfer acceptability: CSU; UC  
Emphasis given to prehistoric cultural traditions of the Eastern Woodlands, Central Plains, Far Western United States, and Canada. Special concern for archaeological problems, reconstruction of these traditions and cultural changes.

ANTH 135  Magic, Witchcraft, and Religion  
3 hours lecture  
Transfer acceptability: CSU; UC  
Anthropological view of the relationships between magic and religion as expressed in rituals, myths, and art is explored through a survey of the less formal or minor religious systems of the world.

ANTH 137  Medical Anthropology: Culture, Illness and Healing  
3 hours lecture  
Transfer acceptability: CSU  
This course is a cross-cultural survey of health, illness and healing in small-scale societies as well as modern societies from a cultural, biological, and ecological perspective. Topics covered include perceptions of the body, perceptions of disease, life phases, culture-specific syndromes, healing practices, healers, nutrition, and healing and medical systems.

ANTH 140  The Original Californians  
3 hours lecture  
Note: Cross listed as AIS 140  
Transfer acceptability: CSU; UC  
Native people of California: Their origin, language, arts, customs religion, folklore, and music. Develop a dynamic comparative grid, focusing on the persistence of tribal identities and evolution of socio-economic changes and cultural practices over time. Special emphasis on Southern California.

ANTH 155  Ancient Civilizations of Meso America  
3 hours lecture  
Note: Cross listed as CS 155  
Transfer acceptability: CSU; UC  
Civilizations of Pre Columbian Mexico and Central America with a focus on their origins and achievements.

ANTH 197  Topics in Archaeology  
3 - 9 hours laboratory  
Transfer acceptability: CSU  
Topics in Archaeological Research. See Class Schedule for specific topic offered. Course title will designate subject covered.

ANTH 205  Prehistoric Archaeological Excavation  
1 hour lecture - 6 hours laboratory  
Transfer acceptability: CSU  
Training in excavating prehistoric archaeological features. Specialized field techniques for prehistoric archaeology. Archaeological theory as it applies to site interpretation.

ANTH 206  Historical Archaeological Excavation  
1 hour lecture - 6 hours laboratory  
Transfer acceptability: CSU; UC  
Training in excavating historic archaeological features. Specialized field techniques in historical archaeology. Archaeological theory as it applies to historic site interpretation.
ANTH 210 Archaeological Surveying (3)
2½ hours lecture - 1½ hours laboratory
Recommended preparation: ANTH 120
Transfer acceptability: CSU
Archaeological surveying techniques including field reconnaissance, use of topographical maps, site recording, and preparation of a project analysis or report.

ANTH 215 Archaeological Laboratory Analysis (3)
2½ hours lecture - 1½ hours laboratory
Transfer acceptability: CSU
Training in the laboratory analysis of stone, ceramic, bone, and other artifacts as well as elementary archaeological theory, statistics, and report preparation.

ANTH 220 Advanced Archaeological Surveying (3)
2½ hours lecture - 1½ hours laboratory
Recommended preparation: ANTH 210
Transfer acceptability: CSU
Advanced archaeological survey techniques including sample survey, site relocation, and the use of Global Positioning System (GPS) and laser transit hardware and software for site recordation, data conversion, site mapping, and the completion of a mapping program.

ANTH 225 Historical Archaeology (3)
2½ hours lecture - 1½ hours laboratory
Recommended preparation: ANTH 120
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU
Method and theory of historical archaeology, including archival research, artifact identification, and report preparation. Training in the location and interpretation of archival documents, such as Franciscan Mission records, Spanish land grant documents, homestead patents, Sanborn fire insurance maps, assessor’s records, and historical topographic maps. Training in the identification of ceramic, glass and metal artifacts and their associated function, method of manufacture, manufacturer, and temporal distribution.

ANTH 296 Special Problems in Anthropology (1, 2, 3)
3, 6, or 9 hours laboratory
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
An individualized or group project in cultural or physical anthropology of any nature approved by the instructor and under the personal supervision of the instructor.

ANTH 297 Special Problems in Archaeology (1, 2, 3)
3, 6, or 9 hours laboratory
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
An individualized or group project in archaeology approved by the instructor and under the personal supervision of the instructor.

ANTH 298 Internship in Archaeology (1-3)
3-9 hours laboratory
Supervised internship in a government agency, private firm or museum. The student intern will have the opportunity to participate in the excavation and/or analysis, processing, and documentation of archaeological collections.

Associate in Science Degrees -
AS Degree requirements are listed in Section 6 (green pages).
- Acoustical Installer
- Carpenter
- Drywall/Lather
- Electrician
- Inside Wireman
- Plasterer
- Sheet Metal
- Sound and Communication Systems Installer
- Sound Technician

Certificates of Achievement -
Certificate of Achievement requirements are listed in Section 6 (green pages).
- Acoustical Installer
- Carpenter
- Drywall/Lather
- Electrician
- Inside Wireman
- Plasterer
- Sheet Metal
- Sound and Communication Systems Installer
- Sound Technician

PROGRAMS OF STUDY
A program for the training of apprentices, consisting of full-time, on-the-job employment plus related classroom instruction.

A CERTIFICATE OF ACHIEVEMENT and/or JOURNEYPERSON TRADE CERTIFICATE will be awarded to students for each program successfully completed. Students who wish to obtain an Associate in Arts Degree may do so by fulfilling the general graduation requirements in addition to the completion of the apprenticeship courses.

A program is maintained for the training of apprentices in the trades as listed. Students who wish to become apprentices should appear before the appropriate Joint Apprenticeship Committee. Training consists of full-time work on-the-job supplemented by related classroom instruction. All students entered into the apprenticeship work experience program are expected to enter AP WE 710, 711, 712, 713, or 714. A maximum of 16 units, Pass/No Pass only, may be earned in Cooperative Work Experience Education, not to exceed 8 units each semester.

Students whose work or attendance is not satisfactory may be dropped from the program by the College, or other corrective measures may be taken by the Joint Apprenticeship Committee. The College grants academic credit for the successful completion of the training program.

Upon completion of the training program, journeyperson trade certificates and college achievement certificates are awarded at a special completion ceremony.

SAFETY GLASSES - Education Code 32030-32034 requires that safety glasses be worn in those classes where eye damage might occur. Students in such classes will be so informed by their instructors. Glasses are available at the college bookstore.

See Catalog addendum at http://www.palomar.edu/catalog
Acoustical Installer (AP AC)

A three-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements  Units
AP DL/AP AC/  
AP PL 701  Orientation  1.5
AP DL/AP PL/  
AP AC 702  Safety and Health Certifications  1.5
AP DL/AP PL/  
AP AC 703  Printreading  1.5
AP DL/  
AP AC 704  Advanced Printreading  1.5
AP AC 705  Acoustical Ceilings  1.5
AP AC 706  Standard Acoustical Grids  1.5
AP AC 707  Suspended Ceilings  1.5
AP AC 708  Soffits  1.5
AP AC 709  Prefab/Sound Panels  1.5
AP AC 710  Concealed/Glue-Up/Staple-Up System  1.5
AP AC 711  Designer and Specialty Trims  1.5
AP AC 712  Metal Pan and Security Systems  1.5
AP AC 713  Advanced Acoustical Installation  1.5
AP AC 714  Advanced Acoustical Layout  1.5
AP AC 715  Drywall Acoustical Ceilings  1.5
AP WE 712  Drywall/Acoustical Work Experience  4

TOTAL UNITS  26.5

COURSE OFFERINGS

AP AC 701  Orientation  (1.5)
   1 hour lecture - 1½ hours laboratory
   **Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee
   **Note:** Cross listed as AP DL 701/AP PL 701

AP AC 702  Safety and Health Certifications  (1.5)
   1 hour lecture - 1½ hours laboratory
   **Prerequisite:** Cross listed as AP DL 702/AP C 702/AP PL 702

AP AC 703  Printreading  (1.5)
   1 hour lecture - 1½ hours laboratory
   **Note:** Cross listed as AP DL 703/AP PL 703

AP AC 704  Advanced Printreading  (1.5)
   1 hour lecture - 1½ hours laboratory
   **Prerequisite:** A minimum grade of 'C' in AC 703/AP DL 703
   **Note:** Cross listed as AP DL 704

AP AC 705  Acoustical Ceilings  (1.5)
   1 hour lecture - 1½ hours laboratory
   Instruction in acoustical ceilings, seismic codes and the theory behind them. Wall molds and trims, ceiling layout and material identification. Students will install ceilings using the technical knowledge and skills.

AP AC 706  Standard Acoustical Grids  (1.5)
   1 hour lecture - 1½ hours laboratory
   Designed with classroom instruction but will focus more on acoustical grid installation such as 2 x 4 and 2 x 2 flat AH@ pattern, radius, gable and diagonal ceilings.

AP AC 707  Suspended Ceilings  (1.5)
   1 hour lecture - 1½ hours laboratory
   Designed with classroom instruction but will focus more on acoustical grid installation such as 2 x 4 and 2 x 2 flat AH@ pattern, radius, gable and diagonal ceilings.

AP AC 708  Soffits  (1.5)
   1 hour lecture - 1½ hours laboratory
   Focus on square and slant faced, tapered, concealed, drywall suspension and slopped soffits.

AP AC 709  Prefab/Sound Panels  (1.5)
   1 hour lecture - 1½ hours laboratory
   Focus on the technical knowledge and skills needed for the installation of prefabricated wall and ceiling panel systems. Acoustical principles and the theory of sound will be discussed.

AP AC 710  Concealed/Glue-Up/Staple-Up System  (1.5)
   1 hour lecture - 1½ hours laboratory
   Instruction in concealed and semi-concealed ceilings and soffits, glue-up and staple-up. Technical knowledge and skills will be demonstrated in assembling these ceilings.

AP AC 711  Designer and Specialty Trims  (1.5)
   1 hour lecture - 1½ hours laboratory
   This course is a more advanced look at specialty and designer trims for grid ceiling systems. Previous knowledge will be applied when laying out and installing straight and curved trims in soffit and light pocket designs, along with clouds, or free floating, trimmed ceilings.

AP AC 712  Metal Pan and Security Systems  (1.5)
   1 hour lecture - 1½ hours laboratory
   Focus on the technical knowledge and skills needed to work with these “high end” products.

AP AC 713  Advanced Acoustical Installation  (1.5)
   1 hour lecture - 1½ hours laboratory
   **Prerequisite:** Cross listed as AP DL 703/AP AC 703
   Instruction in the materials and methods used for the installation of custom and intricate grid systems. Green building rating systems will be applied to selected acoustical materials.

AP AC 714  Advanced Acoustical Layout  (1.5)
   1 hour lecture - 1½ hours laboratory
   **Prerequisite:** Cross listed as AP DL 703/AP AC 703
   Advanced layout methods used to complete complex acoustical system installations. Covers seismic codes and requirements and layout techniques for establishing intricate geometric designs for ceiling grids.

AP AC 715  Drywall Acoustical Ceilings  (1.5)
   1 hour lecture - 1½ hours laboratory
   Identifies the materials and methods used for the installation of acoustical ceilings. Seismic codes, materials, and requirements are also reviewed. Installation for various grid systems will be discussed. Students will use the skills presented to complete an acoustical ceiling project as part of this course.
AP C 797  Acoustical Topics  (.5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. Topics in Acoustical. See Class Schedule for specific topic offered. Course title will designate subject covered.

Carpentry (AP C) 
A four-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.S. DEGREE MAJOR OR 
CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AP C 701</td>
<td>Orientation</td>
<td>1.5</td>
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<tr>
<td>AP C 702</td>
<td>Safety and Health Certification</td>
<td>1.5</td>
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<tr>
<td>AP WE 711</td>
<td>Carpentry Work Experience</td>
<td>4</td>
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</table>

Electives (Select 14 courses)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AP C 703</td>
<td>Printreading</td>
<td>1.5</td>
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<tr>
<td>AP C 704</td>
<td>Advanced Printreading</td>
<td>1.5</td>
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<tr>
<td>AP C 705</td>
<td>Foundation and Flatwork</td>
<td>1.5</td>
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<tr>
<td>AP C 707</td>
<td>Tilt-Up Panel Construction</td>
<td>1.5</td>
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<tr>
<td>AP C 708</td>
<td>Wall Forming</td>
<td>1.5</td>
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<tr>
<td>AP C 709</td>
<td>Gang Forms/Columns</td>
<td>1.5</td>
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<tr>
<td>AP C 710</td>
<td>Patented Forming Systems</td>
<td>1.5</td>
</tr>
<tr>
<td>AP C 712</td>
<td>Column Forms</td>
<td>1.5</td>
</tr>
<tr>
<td>AP C 713</td>
<td>Beam and Deck Forming</td>
<td>1.5</td>
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<tr>
<td>AP C 714</td>
<td>Basic Commercial Framing</td>
<td>1.5</td>
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<tr>
<td>AP C 716</td>
<td>Commercial Floor Framing</td>
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<tr>
<td>AP C 717</td>
<td>Basic Stairs</td>
<td>1.5</td>
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<tr>
<td>AP C 718</td>
<td>Advanced Stairs</td>
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<td>AP C 719</td>
<td>Exterior Finish Details</td>
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<tr>
<td>AP C 721</td>
<td>Basic Roof Framing</td>
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<tr>
<td>AP C 723</td>
<td>Basic Metal Framing</td>
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<tr>
<td>AP C 725</td>
<td>Transit Level/Laser</td>
<td>1.5</td>
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<tr>
<td>AP C 726</td>
<td>Bridge Construction</td>
<td>1.5</td>
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<tr>
<td>AP C 727</td>
<td>Stair and Ramp Forming</td>
<td>1.5</td>
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<tr>
<td>AP C 728</td>
<td>Stair Trim</td>
<td>1.5</td>
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<tr>
<td>AP C 729</td>
<td>Cabinet Millwork and Assembly</td>
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<tr>
<td>AP C 730</td>
<td>Cabinet Installation</td>
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<tr>
<td>AP C 735</td>
<td>Molding and Trim</td>
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<tr>
<td>AP C 736</td>
<td>Plastic Laminates</td>
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<tr>
<td>AP C 737</td>
<td>Door and Door Frames</td>
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<tr>
<td>AP C/P 738</td>
<td>Door and Door Hardware</td>
<td>1.5</td>
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<tr>
<td>AP C 745</td>
<td>Commercial Fixtures</td>
<td>1.5</td>
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<tr>
<td>AP C 747</td>
<td>Basic Suspended Scaffold</td>
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<tr>
<td>AP C 748</td>
<td>Advanced Suspended Scaffold</td>
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<tr>
<td>AP C 749</td>
<td>Basic Systems Scaffold</td>
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<tr>
<td>AP C 750</td>
<td>Intermediate Systems Scaffold</td>
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<td>AP C 751</td>
<td>Advanced Systems Scaffold</td>
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<td>AP C 752</td>
<td>Basic Frame Scaffold</td>
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<td>Intermediate Frame Scaffold</td>
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<tr>
<td>AP C 754</td>
<td>Advanced Frame Scaffold</td>
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<tr>
<td>AP C 755</td>
<td>Basic Tube and Clamp Scaffold</td>
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<tr>
<td>AP C 756</td>
<td>Scaffold in Confined Spaces</td>
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<tr>
<td>AP C 757</td>
<td>Specialty Scaffold Applications</td>
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<td>AP C 758</td>
<td>Scaffold Reshoring</td>
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<tr>
<td>AP C 761</td>
<td>Basic Wall Framing</td>
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<tr>
<td>AP C 764</td>
<td>Abutments</td>
<td>1.5</td>
</tr>
<tr>
<td>AP C 770</td>
<td>Green Building and Weatherization</td>
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<tr>
<td>AP C 771</td>
<td>Intermediate Commercial Framing</td>
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</tr>
<tr>
<td>AP C 772</td>
<td>Solar Installer Level I</td>
<td>1.5</td>
</tr>
<tr>
<td>AP C 773</td>
<td>Water Treatment Facilities</td>
<td>1.5</td>
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TOTAL UNITS  28

COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AP C 701</td>
<td>Orientation</td>
<td>1.5</td>
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<tr>
<td></td>
<td>1 hour lecture - 0½ hours laboratory</td>
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<td></td>
<td>Introduces the use of various hand and power tools used in the trade. Students will be introduced to the history of trade apprenticeships. Construction math and job site safety practices will also be covered.</td>
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<tr>
<td>AP C 702</td>
<td>Safety and Health Certification</td>
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<td></td>
<td>1 hour lecture - 0½ hours laboratory</td>
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<td></td>
<td>Note: Cross listed as AP AC 702/AP C 702/AP DL 702/AP PL 702</td>
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<td>Covers the safe and appropriate use of scaffolds, aerial lift equipment, and emergency response procedures. Successful students will receive UBC Scaffold Erector and Aerial Lift Operator qualification cards. First Aid and CPR certification will be issued upon successful completion of the American Red Cross training provided.</td>
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<tr>
<td>AP C 703</td>
<td>Printreading</td>
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<td>1 hour lecture - 0½ hours laboratory</td>
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<td>The first of two classes in blueprint reading. Covers the fundamental functions and structure of blueprints. Construction drawings, line symbols, freehand sketching as well as pictorial drawings will be covered.</td>
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<tr>
<td>AP C 704</td>
<td>Advanced Printreading</td>
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<td></td>
<td>1 hour lecture - 0½ hours laboratory</td>
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<td></td>
<td>Second of two courses in blueprint reading. Covers foundation prints, commercial prints, residential prints and estimating. Construction specifications will also be covered.</td>
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<tr>
<td>AP C 705</td>
<td>Foundation and Flatwork</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 0½ hours laboratory</td>
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<td></td>
<td>Covers the design and function of several types of foundations and concrete flatwork. The methods, techniques and procedures for formwork layout, elevation, and construction will be presented. Jobsite safety, print interpretation, material identification, and basic use of the builders level will be included in the training. Students will construct three selected formwork projects.</td>
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<tr>
<td>AP C 707</td>
<td>Tilt-Up Panel Construction</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 0½ hours laboratory</td>
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<td></td>
<td>Designed to give an overview of the Tilt-Up industry. Form techniques and panel hardware will be discussed. Related safety, math and blueprint reading will be covered.</td>
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<tr>
<td>AP C 708</td>
<td>Wall Forming</td>
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<td>1 hour lecture - 0½ hours laboratory</td>
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<td></td>
<td>Introduces the basic techniques of poured-in-place concrete wood form construction. Related safety, math and blueprint reading will be covered.</td>
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<tr>
<td>AP C 709</td>
<td>Gang Forms/Columns</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 0½ hours laboratory</td>
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<td></td>
<td>Presents the formwork types and construction methods for gang form and column installations. Discussions will cover heavy timber gang forms and use of taper ties, bracing, and bulkhead tables. The course project will include gang and column formwork construction, assembly, and hardware installation tasks. Related safety, math and print reading will be covered in the training.</td>
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</tbody>
</table>

See Catalog addendum at http://www.palomar.edu/catalog
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AP C 710</td>
<td>Patented Forming Systems</td>
<td>1.5</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td></td>
<td>Covers the basic knowledge required to use blueprints for the purpose of properly laying out, locating, “leveling,” “plumbing,” “squaring” and preparing patented forming systems for concrete work/pours. Poured in place, tilt-up and precast above grade level structural concrete work including structural “load bearing” walls, decks and columns.</td>
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<tr>
<td>AP C 712</td>
<td>Column Forms</td>
<td>1.5</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td></td>
<td>Presents the formwork types and construction methods for column form installations. Discussions will cover structural significance of column layout, squaring, leveling and plumbing. The course project will include column formwork construction, assembly, and hardware installation tasks. Related safety, math and print-reading will be covered.</td>
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<tr>
<td>AP C 713</td>
<td>Beam and Deck Forming</td>
<td>1.5</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Introduction to the use of beam and deck forming systems for concrete construction. Students will identify formwork types and installation techniques including calculating materials and setting beam &amp; deck forms. Metal beam forms and capitals will be highlighted. Layout and builders level skills will be used in this class.</td>
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<tr>
<td>AP C 714</td>
<td>Basic Commercial Framing</td>
<td>1.5</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Provides an introduction to the theory and practice of wall framing. Students start by learning to read floor plans, and then laying out wall locations, plate and detail, as well as openings and structural connections. Construction math and job site safety practices will also be covered.</td>
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<tr>
<td>AP C 716</td>
<td>Commercial Floor Framing</td>
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<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<td></td>
<td>Covers the layout and construction of both residential and commercial floor framing. The use of building codes and blueprint reading will be covered. Fall protection along with job site safety and construction math will also be covered.</td>
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<tr>
<td>AP C 717</td>
<td>Basic Stairs</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Stair construction is an integral part of the carpenter’s trade. This course presents stair theory, related mathematics, code requirements, and basic layout stringers, treads and risers. Students will layout, cut, and erect a straight-run stair. Blueprint reading and safety will also be covered.</td>
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<tr>
<td>AP C 718</td>
<td>Advanced Stairs</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Builds upon the concepts presented in Stair Building I. This class will teach students about winders, u-shaped and radius stair building, as well as code requirements and mathematical calculations. Blueprint reading and safety will also be covered.</td>
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<tr>
<td>AP C 719</td>
<td>Exterior Finish Details</td>
<td>1.5</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Teaches students to read blueprints related to building exteriors such as elevations, sections, and schedules. Construction of structural and architectural elements such as balconies, fireplaces, bay windows, columns and pop-outs. Blueprint reading, mathematical calculations and safety will also be covered.</td>
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<tr>
<td>AP C 721</td>
<td>Basic Roof Framing</td>
<td>1.5</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Roof construction is one of the most challenging and satisfying facets of carpentry. Introduces rafter theory and layout. Students will construct a gable roof using conventional and truss methods. Mathematical calculations for various rafter lengths and safety will also be covered.</td>
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<tr>
<td>AP C 723</td>
<td>Basic Metal Framing</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Introduces the student to the technology of metal framing. Tools and materials will be covered along with floor and wall construction, including openings and structural connections, and metal truss roof systems. Mathematical calculations for various rafter lengths and safety will also be covered.</td>
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<tr>
<td>AP C 725</td>
<td>Transit Level/Laser</td>
<td>1.5</td>
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<td>1 hour lecture - 1½ hours laboratory</td>
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<td>Addresses form design, material estimating and problems relative to form construction. Related safety, math and blueprint reading will be covered.</td>
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<tr>
<td>AP C 726</td>
<td>Bridge Construction</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<td></td>
<td>Provides students with an overview of basic bridge construction. Descriptions for exterior and interior girders, edge forms, bulkheads and hinge forms will be presented. Formwork project will include panel construction, assembly, and hardware installation tasks. Related safety, math and print reading will be covered in the training.</td>
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<tr>
<td>AP C 727</td>
<td>Stair and Ramp Forming</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<tr>
<td></td>
<td>Designed to teach the various techniques used to form stairs and ramp structures. Related safety, math and blueprint reading will be covered.</td>
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<tr>
<td>AP C 728</td>
<td>Stair Trim</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<td></td>
<td>Covers how various trims are utilized to finish stair construction design features. Product styles, characteristics, applications, and installation methods are included in the discussions. The tools and techniques for cutting and installing selected trim types are presented and practiced throughout the training.</td>
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<tr>
<td>AP C 729</td>
<td>Cabinet Millwork and Assembly</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<tr>
<td></td>
<td>Introduction to basic cabinet construction. Blueprint and finish schedules will be covered as well as related safety and math.</td>
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<tr>
<td>AP C 730</td>
<td>Cabinet Installation</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<td></td>
<td>Installation of base and wall-hung cabinets, scribing techniques, and how to read blueprint and finish schedules. Related safety and math will also be covered.</td>
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<tr>
<td>AP C 735</td>
<td>Molding and Trim</td>
<td>1.5</td>
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<tr>
<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<td></td>
<td>Introduction to various moldings and the specific installation techniques of each. Blueprint, finish schedules, related safety and math will also be covered.</td>
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<tr>
<td>AP C 736</td>
<td>Plastic Laminates</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<tr>
<td></td>
<td>Covers manufactured product styles, characteristics, and countertop applications. Materials used as countertop and backsplash substrates are discussed. Construction procedures and installation methods are presented, and students will apply the techniques to produce and install a plastic laminate countertop with backsplash.</td>
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<tr>
<td>AP C 737</td>
<td>Door and Door Frames</td>
<td>1.5</td>
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<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<tr>
<td></td>
<td>Introduction to doors and door hardware schedules, specifications and manufacturer’s catalogs. Fire codes that govern the hardware industry as well as how to identify various door hardware including locksets, closures, hinges, panic hardware and door sweeps etc. Blueprint, finish schedules, and related safety and math will also be covered.</td>
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<tr>
<td>AP C 739</td>
<td>Door and Door Hardware</td>
<td>1.5</td>
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<tr>
<td></td>
<td>1 hour lecture - 1½ hours laboratory</td>
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<tr>
<td></td>
<td>Prerequisite: Student is a Registered State Indentured Apprentice</td>
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<tr>
<td></td>
<td>Introduction to the selection and installation of proper hinge and door-closure hardware. Blueprints, finish schedules, and related safety and math will also be covered.</td>
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</tr>
</tbody>
</table>
AP C 745  Commercial Fixtures  
1 hour lecture - 1½ hours laboratory  
Covers the basic techniques and procedures associated with tube and clamp scaffold components and erection methods. Construction practices and safety considerations will be a major focus of the class. Students will learn to choose and erect equipment using custom configurations for job sites.

AP C 746  Basic Tube and Clamp Scaffold  
1 hour lecture - 1½ hours laboratory  
Covers the advanced techniques and procedures associated with tube and clamp scaffold components and erection methods. Construction practices and safety considerations will be a major focus of the class. Students will learn to choose and erect equipment using custom configurations for job sites.

AP C 747  Basic Suspended Scaffold  
1 hour lecture - 1½ hours laboratory  
Includes print interpretation and fabrication techniques used in the preparation and installation of commercial store fixtures. An emphasis will be placed on accurate measuring, proper hand and power tool use, and safety. Students will calculate materials to create cut lists, and fabricate, assemble and install wall panel and valance fixtures.

AP C 748  Advanced Suspended Scaffold  
1 hour lecture - 1½ hours laboratory  
Advanced techniques and procedures required when constructing suspended scaffolds supported by structural members. Students will identify the suitable structural components for this application type. The methods used to determine load bearing capability of structural elements will be presented. The hazards and precautionary techniques associated with safely building this type of suspended platform will be the focus of this training.

AP C 749  Basic Systems Scaffold  
1 hour lecture - 1½ hours laboratory  
Includes application of cantilevered design methods used to safely erect platforms extending beyond a typical scaffold base arrangement. Students will apply methods and erect equipment using custom configurations for job sites.

AP C 750  Intermediate Systems Scaffold  
1 hour lecture - 1½ hours laboratory  
Includes application of cantilevered design methods used to safely erect platforms extending beyond a typical scaffold base arrangement. Students will apply methods and erect equipment using custom configurations for job sites.

AP C 751  Advanced Systems Scaffold  
1 hour lecture - 1½ hours laboratory  
Covers the advanced techniques and procedures required when constructing system scaffolds used in industrial boiler installation or repair applications. Students will apply common solutions for bridging voids and following equipment contours to construct the selected industrial simulated scaffold projects.

AP C 752  Basic Frame Scaffold  
1 hour lecture - 1½ hours laboratory  
Covers terminology, components and the basic techniques and procedures associated with frame scaffold components. Construction practices and safety considerations will be a major focus of the class. Students will choose and erect equipment using basic configurations suitable for job sites where this type of scaffold is most frequently utilized.

AP C 753  Intermediate Frame Scaffold  
1 hour lecture - 1½ hours laboratory  
Introduction of obstacle and height problem solving into frame scaffold project, to include equipment or overhead restrictions. Students will identify and erect equipment using custom configurations for job sites.

AP C 754  Advanced Frame Scaffold  
1 hour lecture - 1½ hours laboratory  
Covers the advanced techniques and procedures associated with ground supported frame scaffold, in particular the use of scaffold components for construction of various heavy-duty (industrial) elevated platforms. Safety precautions, building procedures and material utilization will be incorporated into the assigned tasks. Students will erect heavy-duty large scale platform scaffolds using project plans and designs for this industrial scaffold application.

AP C 755  Basic Tube and Clamp Scaffold  
1 hour lecture - 1½ hours laboratory  
Covers the basic techniques and procedures associated with tube and clamp scaffold components and erection methods. Construction practices and safety considerations will be a major focus of the class. Students will learn to choose and erect equipment using custom configurations for job sites.

AP C 756  Scaffold in Confined Spaces  
1 hour lecture - 1½ hours laboratory  
Instruction in safe access, entry and monitoring methods for confined space. Both CAL-OSHA and Federal OSHA regulation are covered in detail. The importance of a respirator fit test and respiratory protection training are covered in this course.

AP C 757  Specialty Scaffold Applications  
1 hour lecture - 1½ hours laboratory  
Includes specialty scaffold applications focusing on ramps, chutes and mobile towers suitable for light and heavy duty use. Students will learn the characteristics of commercial and industrial scaffold construction. Selected projects will introduce the techniques and procedures used for access/egress, debris handling, and maintenance scaffolds.

AP C 758  Scaffold Reshoring  
1 hour lecture - 1½ hours laboratory  
Present students with the modified principles and techniques for the use of reshoring equipment in a re-shore application. The importance of uniform loading and alignment of multi-tower/tandem tower configurations will be covered. Students will identify and erect scaffold equipment using three types of configurations suitable for scaffold re-shoring purposes.

AP C 759  Specialty Frame Scaffold  
1 hour lecture - 1½ hours laboratory  
Presents the theory, methods, and procedures required to frame basic walls. Hands-on practice using proper tool techniques and appropriate materials will enhance fundamental skill development. Beginning with an introduction to print reading, students will perform: basic wall layout; plating procedures; framing assembly and bracing; before aligning and completing selected wall construction project to industry standards.

AP C 760  Basic Wall Framing  
1 hour lecture - 1½ hours laboratory  
Provides instruction in the detailing, layout and construction of abutments used in the heavy highway industry. The terms, components, materials, building techniques and procedures will be presented. The class project includes keyway, panel, head wall and wing wall construction.

AP C 761  Abutments  
1 hour lecture - 1½ hours laboratory  
Prerequisite: Student is a Registered State Indentured Apprentice  
Covers the advanced techniques and procedures required when constructing system scaffolds used in industrial boiler installation or repair applications. The terms, components, materials, building techniques and procedures will be presented. The class project includes keyway, panel, head wall and wing wall construction.

AP C 762  Rigging  
1 hour lecture - 1½ hours laboratory  
Prerequisite: Student is a Registered State Indentured Apprentice  
Lifting theory and practical rigging methods and procedures to include rigging attachment procedures, lifting equipment, limits of operation, and communication practices.

AP C 763  Green Building and Weatherization  
1 hour lecture - 1½ hours laboratory  
Energy efficiency, “green” building methods, rating systems and commissioning will be discussed. Products, techniques, and weatherizing procedures used for new buildings and retro-fit buildings will be included in hands-on activities. Practices and devises used to maintain healthy air quality during construction will be a focus of the training.

AP C 764  Intermediate Commercial Framing  
1 hour lecture - 1½ hours laboratory  
Enhances basic wall framing theory, and wall construction techniques are applied at increased skill levels. A review of basic wall framing and floor plans used for job planning, design recognition, and materials lists is included. Students will layout and detail wall plates for locating basic wall components and door openings. Instruction includes measuring skills, mathematical principles, wall assembly and installation procedures, and detail how structural connections are made.

See Catalog addendum at http://www.palomar.edu/catalog
AP C 772 Solar Installer Level I (1.5)
1 hour lecture - 1½ hours laboratory
Covers the design and function of several types of solar installation. The methods, sequences and procedures for foundation layout, elevation, and assembly for solar construction will be presented. Jobsite safety, print interpretation, material identification, and use of system devices and testing criteria will be stressed. Students will construct three selected solar installation projects.

AP C 773 Water Treatment Facilities (1.5)
1 hour lecture - 1½ hours laboratory
Instruction in the detailing, layout, and construction of concrete formwork and waterstop used in water treatment facilities. The terms, components, materials, building techniques and procedures will be presented. The class project includes keyway, panel, waterstop, head wall and wing wall construction.

AP C 774 Tool & Equipment Applications (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
This course promotes hand/power tool and equipment skill development for various construction applications. Scaffold building, aerial lift safety, and operating procedures will be covered. Upon successful completion, students will be issued United Brotherhood of Carpenters (UBC) Aerial Lift and Scaffold Erector-Welded Frame Qualification Cards.

AP C 775 Store Front Installations (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Installation process from constructing storefront openings to putting glass components into commercial store front metal framing.

AP C 776 Total Station I (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Evolution of survey and layout instrument and the advantages of using a total station for building layout over traditional methods. Students will set up a total station and configure the software.

AP C 777 Welding Fabrication (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Introduction to layout, and basic welding and fabrication. Students will be introduced to the basic skills of measuring, equipment set-up and cutting, shaping, grinding, welding, filing, heating and bending of metal parts.

AP C 778 Solid & Stone Surfaces (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Basic and advanced assembly and installation techniques for solid surface, natural stone and manufactured materials. Students will use the procedures presented to fabricate countertops and create a design inlay.

AP C 779 Exit & Electrical Security Devices (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Classification, types, models, codes, and uses for accident hazard exit ("panic") devices.

AP C 780 Fitting Rooms/Partitions (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
This course will compare styles, attachment methods and installation techniques for various fitting room and partition fixtures.

AP C 781 Industrial Scaffolding (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Basic Techniques and procedures associated with frame, system, and tube and clamp scaffold components used in industrial settings. Construction practices and safety considerations will be a major focus of the class including general plant operating conditions and hazards.

AP C 782 Bridge Falsework (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Bridge falsework design and construction methods and procedures. Students will construct bridge falsework using job-built methods.

AP C 783 Crew Lead Training (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
This course covers the supervisory and crew leadership skills required for professional development in the residential/commercial scaffold/plaster erector industry.

AP C 797 Carpentry Topics (1.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Topics in Carpentry. See Class Schedule for specific topic offered. Course title will designate subject covered.

Drywall/Lather (AP DL)
A three-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
Prerequisite: Student is a Registered State Indentured Apprentice

Units
AP C/AP AC/  
AP DL/  
AP AC 701 Orientation 1.5  
AP AC 702 Safety and Health Certifications 1.5  
AP DL/  
AP AC 703 Printreading 1.5  
AP DL 705 Basic Lathing 1.5  
AP DL 706 Framing Ceilings and Soffits 1.5  
AP DL 707 Basic Metal Framing 1.5  
AP DL 708 Framing Suspended Ceilings 1.5  
AP DL 709 Framing Curves and Arches 1.5  
AP DL 710 Light Gage Welding - AWS - A 1.5  
AP WE 712 Drywall/Acoustical Work Experience 4

Electives (Select 3 courses)

AP AC 705 Acoustical Ceilings 1.5  
AP AC 706 Standard Acoustical Grids 1.5  
AP AC 711 Designer and Specialty Trims 1.5  
AP DL/  
AP PL 739 Door and Door Hardware 1.5  
AP C/AP AC  
AP DL/  
AP PL 774 Tool & Equipment Applications 1.5  
AP DL/  
AP AC 704 Advanced Printreading 1.5  
AP DL 712 Basic Hand Finishing 1.5  
AP DL 731 Drywall Acoustical Ceilings 1.5  
AP DL 714 Door/Door Frames 1.5  
AP DL/  
AP PL 715 Exterior Insulation Finish Systems (EIFS) 1.5  
AP DL/  
AP PL 716 Firestop/Fireproofing Procedures 1.5  
AP DL 717 Free-Form Lathing 1.5  
AP DL 718 Automatic Finishing Tools 1.5  
AP DL 720 Drywall Installation/Finish Trims 1.5  
AP DL 721 Advanced Hand Finishing 1.5  
AP DL 722 Advanced Automatic Finishing Tools 1.5  
AP DL 723 Advanced Lathing 1.5  
AP DL 724 Ceiling and Soffit Finishing 1.5

CERTIFICATE OF ACHIEVEMENT A.S. DEGREE MAJOR OR

Drywall/Lather (AP DL)

A three-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
Prerequisite: Student is a Registered State Indentured Apprentice

Units
AP C/AP AC/  
AP DL/  
AP AC 701 Orientation 1.5  
AP AC 702 Safety and Health Certifications 1.5  
AP DL/  
AP AC 703 Printreading 1.5  
AP DL 705 Basic Lathing 1.5  
AP DL 706 Framing Ceilings and Soffits 1.5  
AP DL 707 Basic Metal Framing 1.5  
AP DL 708 Framing Suspended Ceilings 1.5  
AP DL 709 Framing Curves and Arches 1.5  
AP DL 710 Light Gage Welding - AWS - A 1.5  
AP WE 712 Drywall/Acoustical Work Experience 4

Electives (Select 3 courses)

AP AC 705 Acoustical Ceilings 1.5  
AP AC 706 Standard Acoustical Grids 1.5  
AP AC 711 Designer and Specialty Trims 1.5  
AP DL/  
AP PL 739 Door and Door Hardware 1.5  
AP C/AP AC  
AP DL/  
AP PL 774 Tool & Equipment Applications 1.5  
AP DL/  
AP AC 704 Advanced Printreading 1.5  
AP DL 712 Basic Hand Finishing 1.5  
AP DL 731 Drywall Acoustical Ceilings 1.5  
AP DL 714 Door/Door Frames 1.5  
AP DL/  
AP PL 715 Exterior Insulation Finish Systems (EIFS) 1.5  
AP DL/  
AP PL 716 Firestop/Fireproofing Procedures 1.5  
AP DL 717 Free-Form Lathing 1.5  
AP DL 718 Automatic Finishing Tools 1.5  
AP DL 720 Drywall Installation/Finish Trims 1.5  
AP DL 721 Advanced Hand Finishing 1.5  
AP DL 722 Advanced Automatic Finishing Tools 1.5  
AP DL 723 Advanced Lathing 1.5  
AP DL 724 Ceiling and Soffit Finishing 1.5

CERTIFICATE OF ACHIEVEMENT A.S. DEGREE MAJOR OR
Apprenticeship Training

COURSE OFFERINGS

AP DL 726  Reinforced Substrate Installations  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 728  Drywall Applications  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 729  Advanced Metal Framing  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 730  Air, Moisture & Thermal Barriers  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 731  Drywall Repair and Finishing  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 732  Light Gage Welding AWS (B)  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 797  Drywall/Lather Topics  (0.5 - 4)
Note: Cross listed as AP PL 701/AP AC 701

TOTAL UNITS  21 - 24.5

AP DL 701  Orientation  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 702  Safety and Health Certifications  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 703  Printreading  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 704  Advanced Printreading  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 705  Basic Lathing  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 706  Framing Ceilings and Soffits  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 707  Basic Metal Framing  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 708  Framing Suspended Ceilings  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 709  Framing Curves and Arches  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 710  Light Gage Welding - AWS - A  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 711  Light Gage - L.A. City Certification  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 712  Basic Hand Finishing  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 713  Drywall Acoustical Ceilings  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 714  Door/Door Frames  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 715  Exterior Insulation Finish Systems (EIFS)  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 716  Firestop/Fireproofing Procedures  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 717  Free-Form Lathing  (1.5)
1 hour lecture - 1½ hours laboratory

AP DL 718  Automatic Finishing Tools  (1.5)
1 hour lecture - 1½ hours laboratory

See Catalog addendum at http://www.palomar.edu/catalog
AP DL 720  Drywall Installation/Finish Trims  (1.5)
1 hour lecture - 1 ½ hours laboratory
Instruction in the basics of gypsum board application and finish trims.

AP DL 721  Advanced Hand Finishing  (1.5)
1 hour lecture - 1 ½ hours laboratory
In depth instruction in hand tool use. The different operations, phases, and materials to be used in order to have information of what a finished product should look like.

AP DL 722  Advanced Automatic Finishing Tools  (1.5)
1 hour lecture - 1 ½ hours laboratory
Instruction in the proper methods and sequences of the “bazooka,” flat boxes, nail spotters and angle boxes.

AP DL 723  Advanced Lathing  (1.5)
1 hour lecture - 1 ½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
This course will distinguish advance lathing methods and styles from basic application techniques for lath and trim products used on exterior-interior metal framing. Metal framing elements, various bead styles, lathing types and substrates will be covered in both discussions and lab activities. Proper leveling and finishing methods will be demonstrated. Students will apply lath and trim using the techniques presented to complete course projects.

AP DL 724  Ceiling and Soffit Finishing  (1.5)
1 hour lecture - 1 ½ hours laboratory
Designed to provide an advanced level of finishing skill for applications with architecturally detailed ceilings and soffits. Guided practice with a combination of hand and automatic tool techniques will promote the level of manipulative ability required for a successful result. A variety of finish trims will be integrated into each method of finish. Training will conclude with inspection criteria for evaluating finish levels.

AP DL 726  Reinforced Substrate Installations  (1.5)
1 hour lecture - 1 ½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Presents the applications, techniques, and product considerations typical of reinforced substrate installations. The training will focus on Glass Fiber Reinforced Gypsum and Glass Fiber Reinforced Concrete (GFRG) & (GFRC) products. The lab project will include layout, cutting, and handling practices, attachment methods, alignment and various related installation methods.

AP DL 728  Drywall Applications  (1.5)
1 hour lecture - 1 ½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Focus on the skills to properly handle and install drywall used in specialized applications including fire resistance, sound control, and life safety. Layout, cutting, attachment procedures and productivity techniques will be discussed and practiced under job site conditions. Drywall finishing methods will be incorporated into the hands-on activity.

AP DL 729  Advanced Metal Framing  (1.5)
1 hour lecture - 1 ½ hours laboratory
Review of basic metal framing and detailed procedures for framing curved, serpentine, and elliptical non load bearing partitions.

AP DL 730  Air, Moisture & Thermal Barriers  (1.5)
1 hour lecture - 1 ½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Building sealing products and installation techniques.

AP DL 731  Drywall Repair and Finishing  (1.5)
1 hour lecture - 1 ½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Various types of wall patching and finish repairs.

AP DL 732  Light Gage Welding AWS (B)  (1.5)
1 hour lecture - 1 ½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Light gage welding methods and techniques aligned with American Welding Society (AWS) welding processes, symbols, materials, and safety procedures.

AP DL 797  Drywall/Lather Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Topics in Drywall/Lather. See Class Schedule for specific topic offered. Course title will designate subject covered.

Electrician (AP E)
A five-year apprenticeship program. Applications for Riverside/San Bernardino/Mono/Inyo counties should apply to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committees, 1855 Business Center Drive, San Bernardino, CA 92408. Telephone: (909) 890-1703.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AP E 701</td>
<td>Electrical Trade/Industry/DC/Conduit Bending</td>
<td>4</td>
</tr>
<tr>
<td>AP E 702</td>
<td>Electrical Theory/Practice/Blueprint Reading</td>
<td>4</td>
</tr>
<tr>
<td>AP E 703</td>
<td>Inductance/Capacitance Theory</td>
<td>4</td>
</tr>
<tr>
<td>AP E 704</td>
<td>Transformers/Code Calculations/Conduit</td>
<td>4</td>
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<tr>
<td>AP E 705</td>
<td>Electronic/Industrial Blueprints</td>
<td>4</td>
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<tr>
<td>AP E 706</td>
<td>Grounding/Electrical Services/Connection</td>
<td>4</td>
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<tr>
<td>AP E 707</td>
<td>Motor Control/Pilot Devices/Starters</td>
<td>4</td>
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<tr>
<td>AP E 708</td>
<td>Digital Electronics</td>
<td>4</td>
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<tr>
<td>AP E 709</td>
<td>Mgmt/Alarms/Testing/Wiring</td>
<td>4</td>
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<tr>
<td>AP E 710</td>
<td>Programmable Logic Controllers</td>
<td>4</td>
</tr>
<tr>
<td>AP WE 713</td>
<td>Electrician Work Experience</td>
<td>16</td>
</tr>
</tbody>
</table>

TOTAL UNITS  56

COURSE OFFERINGS

AP E 701  Introduction to the Electrical Trade and Industry, DC Theory and Conduit Bending  (4)
3 hours lecture - 3 hours laboratory
Orientation to the electrical industry; introduction to the electrical code fundamentals of wiring methods, fastening devices, electrical conductors, circuits, and voltage.

AP E 702  Electrical Theory, Practice and Blueprint Reading  (4)
3 hours lecture - 3 hours laboratory
Study of floor and plot plan; basic blueprint reading and circuit drawing; theory of magnetism; DC and AC generators; motors and transformers; on-the-job safety and first aid, and the electrical code.

AP E 703  Inductance and Capacitance Theory and Codeology  (4)
3 hours lecture - 3 hours laboratory

AP E 704  Transformers and Code Calculations, Conduit Bending and Blueprints  (4)
3 hours lecture - 3 hours laboratory
Study of transformers theory, installation, connection and distribution systems. Performing short circuit calculations, selecting of building wire for specific applications, calculating loads for residential and multifamily loads and service feeders. Applying conduit bending principles using mechanical benders to fabricate segmented concentric bends.
APPRENTICESHIP TRAINING

AP E 705  Introduction to Electronics and Industrial Blueprints  (4)
3 hours lecture - 3 hours laboratory
Introduction to electronics including examination of semiconductor devices, current and voltage manipulation, applications, and blueprint reading.

AP E 706  Grounding, Electrical Services, and Transform Three-Phase Connections  (4)
3 hours lecture - 3 hours laboratory
Study of requirements for electrical services installation. Study of electrical grounding, including merits, impact on safety, ground fault protection, and identification of grounding system elements and functions.

AP E 707  Electrical Motor Control, Pilot Devices, Starters and Relays  (4)
3 hours lecture - 3 hours laboratory
Study of controls and circuits, pilot devices, starters, and relays. Includes the analysis and development of circuits, the installation and service of electrical equipment, and the electrical code.

AP E 708  Digital Electronics  (4)
3 hours lecture - 3 hours laboratory
Introduction to digital electronic technology and electronic equipment. Instruction includes basic digital systems, binary and decimal numbering systems, decision-making logic circuits, Boolean Algebra, flip-flops, counters, shift registers, encoders, decoders, ROMs, DC to AC converters and organization of these component blocks to accomplish manipulation of data.

AP E 709  Management, Fire Alarms, High Voltage Testing, and Telephone and Security Wiring  (4)
3 hours lecture - 3 hours laboratory
Introduction to management and marketing practices, installation of fire alarm systems and the National Electric Code as it relates to alarm installation and high voltage of telephone wiring and security systems.

AP E 710  Programmable Logic Controllers  (4)
3 hours lecture - 3 hours laboratory
Introduction to basic input/output hardware, processors and memory numbering systems associated with programmable controllers. Instruction includes use of personal computer to create and modify ladder diagrams and relay instructions, using solid state logic elements, counters, and shift registers. Principles of process control are explained and principle components are identified.

AP Intelligent Transport (AP IT) - AP IT

AP IT 701  Introduction to the Intelligent Transportation Systems Trade and Industry  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Orientation to the intelligent transportation systems industry with emphasis on an introduction to apprenticeship, jobsite overview, tools, hardware, beginning conduit bending and electrical system principles. Particular attention will be given to fundamental mathematics, safety awareness, and apprentice responsibilities.

AP IT 702  Electrical Theory, Applications and Blueprint Reading  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice

AP IT 703  DC circuits, Codeology, and Underground Installations  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Study of circuit analysis techniques, DC circuit theory, National Electric Code (NEC), underground installations, grounding systems.

AP IT 704  AC Theory, Blueprints Maintenance and Trouble shooting  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Study of blue print fundamentals. Students participate in exercises involving symbols, conversions and abbreviations. Students draw electrical diagrams of DC circuits. Introduction into AC theory. Maintenance and troubleshooting of electrical circuits. Traffic signal cabinets and equipment is covered.

AP IT 705  Combination Circuits, Traffic Signal Cabinets and Controllers  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Introduction to electrical power quality, power factors, combination circuits, traffic signal cabinets, traffic signal controllers, traffic signal coordination, bridge blueprints, sign structures, street lighting, and leadership skills.

AP IT 706  Alternative Energy Systems, CCTV , Fiber Optics  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Introduction to alternative energy systems, photovoltaics, uninterruptible power supply, CATV and CCTV Systems, security systems, fiber optics, video motion detectors, video communications control, traffic signal timing, troubleshooting and leadership skills.

AP IT 707  Motor Control, Safety Training and Certifications  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Prerequisite: Student is a Registered State Indentured Apprentice
Study of motor controls and circuits, pilot devices, starters, and relays. Includes the analysis and development of circuits, the installation and the service of electrical equipment. OSHA 30/EM 385 certification and IMSA Certifications.

AP IT 708  Electrical Certification and Project Supervision  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
Designed to prepare the student to take the California General Electrical State Certification Examination. Provides a review of concepts and principles, but focuses primarily on understanding and applying the National Electric Code (NEC).

Inside Wireman (AP IW)

A five-year apprenticeship program. Study of technical course development and delivery techniques for the electrical trade, utilizing classroom-proven techniques. The student will familiarize him/herself with classroom management, testing and assessment techniques, curriculum development and material presentation based on industry-standard and college level instructional methodologies. Applications for this program should be directed to the San Diego Electrical Training Trust, 4675 Viewridge Avenue, San Diego, CA 92123. Telephone (858) 569-6633, ext. 111.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
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<td>Introduction to the Electrical Trade</td>
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<tr>
<td>AP IW 702</td>
<td>Electrical Theory, Practice and Blueprint Reading</td>
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<tr>
<td>AP IW 703</td>
<td>Inductance and Capacitance Theory</td>
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<td>AP IW 704</td>
<td>Transformer, Motors, and Motor Controls</td>
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<td>AP IW 705</td>
<td>Special Electrical Systems</td>
<td>4</td>
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<tr>
<td>AP IW 706</td>
<td>Specialized Electrical Applications</td>
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<tr>
<td>AP WE 713</td>
<td>Electrician Work Experience</td>
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Electives (Select 16 units)

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<td>Electrical Project Supervision</td>
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<tr>
<td>AP IW 714</td>
<td>Electrical Certification Preparation</td>
<td>4</td>
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<tr>
<td>AP IW 716</td>
<td>Photovoltaics</td>
<td>4</td>
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<tr>
<td>AP IW 725</td>
<td>Building Automation Systems</td>
<td>4</td>
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<tr>
<td>AP IW 726</td>
<td>Electrical Construction Practices</td>
<td>4</td>
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<tr>
<td>AP IW 797</td>
<td>Inside Wireman Topics</td>
<td>2-4</td>
</tr>
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</table>

TOTAL UNITS 56

See Catalog addendum at http://www.palomar.edu/catalog
COURSE OFFERINGS

AP IW 701 Introduction to the Electrical Trade (4)
3 hours lecture - 3 hours laboratory
Introduction to the electrical industry, with emphasis on jobsite safety, basic conduit bending, National Electric Code (NEC), sexual harassment, introduction to blueprints, tools and their use. Particular attention will be given to fastening devices, basic mathematics, resistance, voltage, power in DC series, parallel, and combination circuits.

AP IW 702 Electrical Theory, Practice and Blueprint Reading (4)
3 hours lecture - 3 hours laboratory
Survey of drug awareness, Union Constitution and Bylaws, parliamentary procedure, test instruments, 3Ø electrical systems, DC and AC power generation, specialized conduit bending techniques, National Electric Code (NEC), solid state devices, blueprint analysis, AC theory, transformers, vector analysis, impedance, voltage, power in AC series, parallel, and combination circuits.

AP IW 703 Inductance and Capacitance Theory (4)
3 hours lecture - 3 hours laboratory
Study of circuit analysis techniques, power factor, semiconductors, AC system grounding and bonding, ground fault protection systems, overcurrent protective devices (fuse and circuit breakers), test instruments, National Electric Code (NEC), and industrial blueprint analysis.

AP IW 704 Transformer, Motors, and Motor Controls (4)
3 hours lecture - 3 hours laboratory
Study of real-world application of transformer, motor and motor control concepts utilizing extensive hands-on labs and demonstrations. Students work in foremen-led teams to design, build, and test motor control circuits. Students will gain familiarity with a wide array of test instruments including DMMs, voltage testers, megohmmeters, clamp-on ammeters, capacitance testers and other equipment.

AP IW 705 Special Electrical Systems (4)
3 hours lecture - 3 hours laboratory
Introduction to telephony and data networks, fire alarm systems, nurse call systems, Programmable Logic Controllers (PLCs), arc-flash protection, and instrumentation concepts, National Electric Code (NEC), and OSHA rules and regulations.

AP IW 706 Specialized Electrical Applications (4)
3 hours lecture - 3 hours laboratory
Introduction to electrical power quality, CATV and CCTV Systems, security systems, fiber optics, hazardous locations, lighting protection, advanced conduit bending, HVAC principles and controls, blueprints, and leadership skills.

AP IW 713 Electrical Project Supervision (4)
3 hours lecture - 3 hours laboratory
An overview of all processes required to run a successful job. The class utilizes field trips and speakers to give the student a 360° view of the workplace. Each speaker will bring expertise from the field into the classroom where students will learn the right and the wrong way to organize and run a jobsite.

AP IW 714 Electrical Certification Preparation (4)
3 hours lecture - 3 hours laboratory
Designed to prepare the student to take the California Electrician Certification Examination (CECE). Provides a review of concepts and principles, but focuses primarily on understanding and applying the national Electric Code (NEC), the set of standards upon which the CECE is based.

AP IW 716 Photovoltaics (4)
3 hours lecture - 3 hours laboratory
Technologies and installation requirements for photovoltaic systems. Subjects presented in this course are renewable energy construction, renewable energy resources, renewable energy efficiency, and energy savings devices used in construction.

AP IW 725 Building Automation Systems (4)
3 hours lecture - 3 hours laboratory
Technologies and installation requirements for Building Automation Systems (BAS). The subjects presented in this course are Building Automation applications and requirements used in the construction of commercial and industrial buildings. This course allows students to practice the technical skills required to successfully install, commission, and verify operation of a wide variety of advanced components, such as photosensors, occupancy sensors, digital dimming networked and wireless control systems, programmable time clocks, and emergency lighting controls. In addition, it comprehensively addresses the requirements, regulations, products and strategies which will enable electricians to master successful, expert, and professional customer relations, installation, and maintenance of Electric Vehicle (EV) and Plug-in Hybrid Electric Vehicle (PHEV) infrastructure.

AP IW 726 Electrical Construction Practices (4)
3 hours lecture - 3 hours laboratory
The technologies and skill sets required for installing and provisioning the electrical requirements for commercial or industrial facilities. The topics presented in this course include electrical distribution overview, safety, OSHA requirements, shoring, trenching, Sempra Service Guide requirements, rigging, IEEE Standards, Blueprints, CSI Master Format construction specifications and National Electrical requirements for electrical services and distribution systems.

AP IW 797 Inside Wireman Topics (2-4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule. Topics in Inside Wireman. See Class Schedule for the specific topic offered. Course title will designate subject covered.

Plasterer (AP PL)
A four-year apprenticeship program. Applicants for this program should be directed to the Carpenters joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.S. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tr>
<td>AP DL/AC/PL 701</td>
<td>Orientation</td>
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<td>AP DL/PL 702</td>
<td>Safety and Health Certifications</td>
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<tr>
<td>AP DL/AC/PL 703</td>
<td>Printreading</td>
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<tr>
<td>AP DL/PL 704/705</td>
<td>Basic Lathing</td>
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<td>AP PL 706</td>
<td>Basic Plastering</td>
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<tr>
<td>AP PL 707</td>
<td>Exterior Plastering</td>
</tr>
<tr>
<td>AP PL 708</td>
<td>DOT and Screeën Techniques</td>
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<tr>
<td>AP PL 709</td>
<td>Interior Plastering</td>
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<tr>
<td>AP PL 710</td>
<td>Finish Applications</td>
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<tr>
<td>AP PL 711</td>
<td>Ornamental Plastering</td>
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<tr>
<td>AP PL 713</td>
<td>Theme Plastering</td>
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<tr>
<td>AP DL/AP PL 715</td>
<td>Exterior Insulation Finish Systems (EIFS)</td>
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<td>AP DL/AP PL 716</td>
<td>Firestop/Fireproofing Procedures</td>
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<tr>
<td>AP PL 717</td>
<td>Plastering Equipment Application</td>
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<tr>
<td>AP PL 718</td>
<td>Plastering Equipment</td>
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<tr>
<td>AP C/AP AC/AP DL</td>
<td>Tool &amp; Equipment Applications</td>
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<tr>
<td>AP C/AP PL 783</td>
<td>Crew Lead Training</td>
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</table>

TOTAL UNITS: 25.5
COURSE OFFERINGS

AP PL 701 Orientation (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Indentured apprentice to a designated Joint Apprenticeship and Training Committee
Note: Cross listed as AP DL 701/ AP AC 701
An introduction to the Interior Systems program. Safe and proper use of hand tools, power tools, trade related math, beginning print reading and layout as well as safety certifications. Certifications will include scaffold erector/dismantler (welded frame) and low velocity powder actuated tools.

AP PL 702 Safety and Health Certifications (1.5)
1 hour lecture - 1½ hours laboratory
Note: Cross listed as AP AC 702/AP C 702/AP DL 702/AP PL 702
Instruction in safety and health training that meets the needs of the Interior Systems industry. Content includes certification in Power Industrial Trucks, Aerial Lift, American Red Cross First Aid / CPR / AED, and OSHA 10.

AP PL 703 Printreading (1.5)
1 hour lecture - 1½ hours laboratory
Note: Cross listed as AP DL 703/ AP AC 703
An introduction to the basic visualization skills needed for reading and interpreting construction prints. Demonstration of the significance of views, elevations and the role of specifications as they relate to prints.

AP PL 705 Basic Lathing (1.5)
1 hour lecture - 1½ hours laboratory
Note: Cross listed as AP DL 705
Presents the basic lathing methods used in the industry for exterior/interior installations. Students will use the skills presented to complete a lathing project as part of this course.

AP PL 706 Basic Plastering (1.5)
1 hour lecture - 1½ hours laboratory
This course provides a brief history of plastering and a complete picture of what the plastering industry is like today. The importance of good lathing and proper inspection of lathing will be emphasized. Proper hawk and trowel and basic tool use will be demonstrated.

AP PL 707 Exterior Plastering (1.5)
1 hour lecture - 1½ hours laboratory
An introduction to Portland Cement Plaster (a.k.a. stucco) and the processes involved in completing a plastering job. This course will stress the importance of good workmanship and adherence to proven methods of work. Students will begin to develop mastery of basic plastering tools in this course.

AP PL 708 DOT and Screed Techniques (1.5)
1 hour lecture - 1½ hours laboratory
This course is designed to teach the importance of plumb and square projects. The students will use 3-4-5 or center line methods to square the project, establish control lines and wall finish lines. The plumbing of the project will be demonstrated through the dotting and screeding portion of instruction. The student will brown up and finish a project using methods of application previously covered.

AP PL 709 Interior Plastering (1.5)
1 hour lecture - 1½ hours laboratory
An introduction to modern gypsum interior plastering systems. Proper methods of application, proper proportioning and mixing, and good workmanship will be demonstrated in this course.

AP PL 710 Finish Applications (1.5)
1 hour lecture - 1½ hours laboratory
The course will emphasize three different types of molds, their use and application. Components and production of a mold, how to horse a mold and create inside and outside miters will also be covered.

AP PL 711 Ornamental Plastering (1.5)
1 hour lecture - 1½ hours laboratory
This course is designed to provide instruction and practice in advanced geometric lay out problems. Class project will guide students through each phase of production to produce an elliptical arch, with keystone at the arch apex. The project will introduce students to benching a mold, setting and pointing staff, building a working trammel and successfully running a trammel mold.

AP PL 713 Theme Plastering (1.5)
1 hour lecture - 1½ hours laboratory
Prerequisite: Student is a Registered State Indentured Apprentice
This course is designed to teach the student the basic knowledge and skills required to successfully plan and execute a simple project that requires the use of manufactured rock. A study of real rock formations and the techniques used to copy them will be covered as well as painting and highlighting, required tools, art lay out, and carving techniques.

AP PL 715 Exterior Insulation Finish Systems (EIFS) (1.5)
1 hour lecture - 1½ hours laboratory
Note: Cross listed as AP DL 715
Introduction to the basic working knowledge and technical skills needed to successfully install Exterior Insulation and Finish Systems EIFS (foam products) to meet industry specifications and standards. Introduction to the proper usage of products and materials will be discussed and used.

AP PL 716 Firestop/Fireproofing Procedures (1.5)
1 hour lecture - 1½ hours laboratory
Note: Cross listed as AP DL 716
Emphasis on the correct methods, technical skills and firestop materials required to complete a Firestop System. Firestopping is a complete fire containment system designed to prevent the passage of fire, smoke and hot gasses from one side of a rated wall/ceiling assembly to another.

AP PL 717 Plastering Equipment Application (1.5)
1 hour lecture - 1½ hours laboratory
Instruction in the materials, application methods and techniques for operating a plaster pump. Students will complete a three-coat work application to industry standards. Emphasis on proper pump set-up, washout and maintenance.

AP PL 718 Plastering Equipment (1.5)
1 hour lecture - 1½ hours laboratory
Terminology, components and operating procedures for plastering equipment and machinery. Machine maintenance, safety, troubleshooting procedures, limits of operation and communication practices will be covered. Students will inspect and properly set up and clean a plastering pump.

AP PL 797 Plasterer Topics (5-4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and or laboratory may be scheduled by the department. Refer to Class Schedule.
Topics in Plasterer. See Class Schedule for specific topic offered. Course title will designate subject covered.
Sheet Metal (AP SM)

A five-year apprenticeship program. Applicants for this program should be directed to the San Diego Sheet Metal Joint Apprenticeship and Training Committee, 4596 Mission Gorge Place, San Diego, CA 92120. Telephone (619) 265-2758.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
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<tr>
<th>Course Code</th>
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<td>AP SM 701</td>
<td>Core I</td>
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<tr>
<td>AP SM 702</td>
<td>Core II</td>
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<td>AP SM 703</td>
<td>Core III</td>
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<td>AP SM 704</td>
<td>Core IV</td>
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<td>AP SM 705</td>
<td>Sheet Metal Welding</td>
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<tr>
<td>AP SM 706</td>
<td>Plans &amp; Specifications</td>
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<td>AP SM 709</td>
<td>Foreman and Project Management Training</td>
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<td>AP SM 710</td>
<td>Architectural Application</td>
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<td>AP SM 711</td>
<td>HVAC I</td>
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<td>AP SM 712</td>
<td>HVAC II</td>
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<tr>
<td>AP WE 710</td>
<td>Sheet Metal Work Experience</td>
<td>16</td>
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TOTAL UNITS 55

COURSE OFFERINGS

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<tr>
<td>AP SM 701</td>
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<tr>
<td></td>
<td>3 hours lecture - 3 hours laboratory</td>
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<tr>
<td></td>
<td>An introduction to the basic principles, processes, drawings, materials and practices used in the sheet metal industry.</td>
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<td>AP SM 702</td>
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<td>3 hours lecture - 3 hours laboratory</td>
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<td>A continuation of basic sheet metal processes as well as an introduction to simple sheet metal forming processes.</td>
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<td>AP SM 703</td>
<td>Core III</td>
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<td>3 hours lecture - 3 hours laboratory</td>
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<td></td>
<td>An introduction to intermediate sheet metal processes demonstrating job layout, architectural details and construction techniques with problems of unusual complexity and difficulty.</td>
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<tr>
<td>AP SM 704</td>
<td>Core IV</td>
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<tr>
<td></td>
<td>A continuation of intermediate processes with problems of unusual difficulty and complexity.</td>
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<td>AP SM 705</td>
<td>Sheet Metal Welding</td>
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<td>1/2 hours lecture - 4 1/2 hours laboratory</td>
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<tr>
<td></td>
<td>An introduction to the basic principles and methods of gas and arc welding used in the sheet metal industry. Includes codes, standards, welding theory and the practical application using prescribed welding procedures and equipment.</td>
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<tr>
<td>AP SM 706</td>
<td>Plans and Specifications</td>
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<td></td>
<td>3 hours lecture - 3 hours laboratory</td>
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<td>An introduction to the language and organization of plans and specifications for sheet metal projects. Topics will include architectural, structural, mechanical and electrical drawings as well as how to write and implement a change order to plans and specifications.</td>
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<td>AP SM 709</td>
<td>Foreman and Project Management Training</td>
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<td></td>
<td>3 hours lecture - 3 hours laboratory</td>
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<td></td>
<td>Overview of the knowledge, skills and abilities required to effectively perform as a foreman and project manager in the sheet metal industry.</td>
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<tr>
<td>AP SM 710</td>
<td>Architectural Application</td>
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<td></td>
<td>3 hours lecture - 3 hours laboratory</td>
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<tr>
<td></td>
<td>Overview of the knowledge, skills, and abilities of advanced architectural project performance.</td>
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</table>

AP SM 711 HVAC I (4)
3 hours lecture - 3 hours laboratory
An introduction to the physical components and systems of a basic HVAC system as well as hands-on techniques for startup and basic system troubleshooting.

AP SM 712 HVAC II (4)
3 hours lecture - 3 hours laboratory
Designed to build on the principles of basic HVAC system design and installation. Students will develop a better understanding of how a modern HVAC system is designed and functions. Field installation, plans and specifications, commissioning, project management and basic LEED principles will also be covered.

Sound and Communication Systems

Installer (AP SC)

A three-year apprenticeship program. Applicants for this program should be directed to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committees, 1855 Business Center Drive, San Bernardino, CA 92408. Telephone: (909) 890-1703.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

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<tr>
<td>AP SC 702</td>
<td>Electrical Theory and Practices DC</td>
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<td>AP SC 703</td>
<td>Electrical Theory and Practices AC</td>
<td>4</td>
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<tr>
<td>AP SC 704</td>
<td>Semiconductor Electronics</td>
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<tr>
<td>AP SC 705</td>
<td>Intro to Digital Electronics and Signaling Devices</td>
<td>4</td>
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<tr>
<td>AP SC 706</td>
<td>Management/Alarms/Codes/Circuits</td>
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<tr>
<td>AP WE 713</td>
<td>Electrician Work Experience</td>
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TOTAL UNITS 40

Sound Technician (AP SC)

A four-year apprenticeship program. Students will work in the field during the day and attend class in the evenings. Each apprentice is paid for field work with regularly scheduled pay increases based on required work hours and completion of classroom instruction. Upon completion of this program, students will receive a certificate of completion from the California Division of Apprenticeship Standards and Journeyman Sound Technician status in the I.B.E.W. All students must be indentured Sound Technical apprentices to be eligible for the course. Interested applicants from San Diego/Imperial counties should apply to the San Diego Electrical Training Trust, 4675 Viewridge Avenue, San Diego, CA 92123. Telephone: (858) 569-6633, extension 111.

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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AP SC 701</td>
<td>Intro to the Sound/Communication Trade Industry</td>
<td>4</td>
</tr>
<tr>
<td>AP SC 702</td>
<td>Electrical Theory and Practices DC</td>
<td>4</td>
</tr>
<tr>
<td>AP SC 703</td>
<td>Electrical Theory and Practices AC</td>
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</tr>
<tr>
<td>AP SC 704</td>
<td>Semiconductor Electronics</td>
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<tr>
<td>AP SC 705</td>
<td>Introduction to Digital Electronics</td>
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<td>AP SC 706</td>
<td>Management/Alarms/Codes/Circuits</td>
<td>4</td>
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<tr>
<td>AP SC 707</td>
<td>Life Safety and Security System Applications</td>
<td>4</td>
</tr>
<tr>
<td>AP SC 708</td>
<td>Specialized Systems and Supervision Techniques</td>
<td>4</td>
</tr>
<tr>
<td>AP WE 713</td>
<td>Electrician Work Experience</td>
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</table>

TOTAL UNITS 48

COURSE OFFERINGS

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AP SC 701</td>
<td>Introduction to the Sound and Communication Trade Industry</td>
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</tr>
<tr>
<td></td>
<td>3 hours lecture - 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to the sound and communication industry, electrical code, fundamentals of wiring methods, fastening devices, electrical conductors, circuits, voltage and data communication.</td>
<td></td>
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</tbody>
</table>
AP SC 702  Electrical Theory and Practices DC
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AP SC 701
Study of floor and plot plans, basic blueprint reading and circuit drawing, theory of magnetism, DC and AC generators, motors and transformers, on-the-job safety, first aid, electrical code, telephony and data communications.

AP SC 703  Electrical Theory and Practices AC
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AP SC 702
Study of apprenticeship, electrical inductance, capacitance and reactance, including grounded conductors, branch circuits, transformer principles, RCL circuits and filters.

AP SC 704  Semiconductor Electronics
3 hours lecture - 3 hours laboratory
Study of solid-state electronic theory and components, diodes, transistors, SCR, triacs, diacs, IC amplifiers and op-amps.

AP SC 705  Introduction to Digital Electronics and Signaling Devices
3 hours lecture - 3 hours laboratory
Introduction to digital electronic technology and electronic equipment. Instruction includes basic digital systems, binary and decimal numbering systems, decision-making logic circuits, Boolean Algebra, flip-flops, counters, shift registers, encoders, decoders, ROMs, DC to AC converters and organization of these component blocks to accomplish manipulation of data.

AP SC 706  Management/Alarms/Codes/Circuits
3 hours lecture - 3 hours laboratory
Introduction to management, installation of security and fire alarm systems, the National Electrical Code as it relates to alarm installation and circuits as applied to alarm systems.

AP SC 707  Life Safety and Security System Applications
3 hours lecture - 3 hours laboratory
Continuation of digital theory studies. Instruction expands coverage of Life Safety Systems, and introduces the theory and application of Nurse Call Systems and Security Systems with an emphasis on closed circuit television (CCTV) installations.

AP SC 708  Specialized Systems and Supervision Techniques
3 hours lecture - 3 hours laboratory
Study of specialized building systems including cable television systems (CATV), master antenna systems (MATV), and building automation systems. Training will cover aspects of job administration including personal computer use, job estimating, customer relations, and building system startup procedures.

Work Experience (AP WE)
Students may earn a maximum of 16 units in AP Work Experience.

AP WE 710  Sheet Metal Work Experience
12 hours laboratory
Note: Pass/No Pass grading only
Supervised on-the-job training in the Sheet Metal Trade.

AP WE 711  Carpentry Work Experience
12 hours laboratory
Note: Pass/No Pass grading only
Supervised on-the-job training in the Carpentry trade.

AP WE 712  Drywall/Acoustical Work Experience
12 hours laboratory
Note: Pass/No Pass grading only
Supervised on-the-job training in the Interior Systems Trade.

AP WE 713  Electrician Work Experience
12 hours laboratory
Note: Pass/No Pass grading only
Supervised on-the-job training in the Electrician trade.

Arabic (ARAB)
Contact the World Languages Department for further information. 760-744-1150, ext. 2390
Office: H-201

COURSE OFFERINGS

ARAB 101  Arabic I
5 hours lecture - 1 hour laboratory
Note: Not open to students with credit for ARAB 101B.
Transfer acceptability: CSU; UC
This course is the first semester of Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory. This beginning-level course is for students with no previous coursework in Arabic.

ARAB 102  Arabic II
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in ARAB 101 or two years of high school Arabic
Transfer acceptability: CSU; UC
Not open to students with credit for ARAB 102B
This course is the second semester of Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory.

ARAB 201  Arabic III
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in ARAB 102 or three years of high school Arabic
Transfer acceptability: CSU; UC
Not open to students with credit for ARAB 201B
This course is the third semester of Arabic. This intermediate level course is a study of the Arabic language and Arabic-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Arabic. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in Arabic.

Architecture (ARCH)
Contact the Design and Consumer Education Department for further information. 760-744-1150, ext. 2349
Office: P-8A
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Architecture (AS, CA)
This coursework prepares students for transfer into a university architectural program. Emphasis is on current architectural and construction practices, fundamental design skills, sustainable building guidelines, and transfer preparation. Students should review specific course requirements and transfer agreements with their architectural instructor and transfer counselor. General education course requirements such as mathematics, physics, etc. will vary depending upon the specific university program.
**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ARCH 105</td>
<td>Basic Architectural Drafting</td>
</tr>
<tr>
<td>ARCH 120</td>
<td>Architectural History</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ARCH 121</td>
<td>Multicultural Architectural History</td>
</tr>
<tr>
<td>ARCH 122</td>
<td>History of Architectural Theory</td>
</tr>
<tr>
<td>ARCH 135</td>
<td>Architectural Materials and Methods of Construction</td>
</tr>
<tr>
<td>ARCH 145</td>
<td>Designing for Communication and Presentation</td>
</tr>
<tr>
<td>ARCH 215</td>
<td>Design Studio IA</td>
</tr>
<tr>
<td>ARCH 216</td>
<td>Design Studio IB</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 21

Students should review specific course requirements and transfer agreements with their architectural instructor and transfer counselor. General education course requirements such as mathematics, physics, etc. will vary depending upon the specific university program.

**Architectural Drafting (AS, CA)**

Prepares students for employment as a design/production drafter in the field of architecture.

**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 105</td>
<td>Basic Architectural Drafting</td>
</tr>
<tr>
<td>ARCH 135</td>
<td>Architectural Materials and Methods of Construction</td>
</tr>
<tr>
<td>ARCH 145</td>
<td>Designing for Communication and Presentation</td>
</tr>
<tr>
<td>ARCH/ID 150</td>
<td>Beginning Computer Aided Drafting</td>
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<td>ARCH 160</td>
<td>Environmental Architecture and Design</td>
</tr>
<tr>
<td>ARCH 200</td>
<td>Advanced Computer Aided Drafting</td>
</tr>
<tr>
<td>ARCH 202</td>
<td>Introduction to Revit Architecture</td>
</tr>
<tr>
<td>ARCH 204</td>
<td>Advanced Revit</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 24

**COURSE OFFERINGS**

**ARCH 105 Basic Architectural Drafting**

3 hours lecture 1½ hour lecture - 4½ hours laboratory

Transfer acceptability: CSU

An introduction to architectural hand drafting and sketching including graphic delineation, lettering, construction theory, construction details, and building codes as related to the development of working drawings for residential design.

**ARCH 120 Architectural History**

3 hours lecture

Transfer acceptability: CSU; UC

An overview of the architectural history of Egyptian, Mesopotamia, Aeganean and Greek, Roman and Byzantine, Romanesque and Gothic, and the Renaissance and Baroque periods. Pictorial representation and visual studies of these structures will be taught through sketching and student presentation.

**ARCH 121 Multicultural Architectural History**

3 hours lecture

Transfer acceptability: CSU; UC

A comparative study of the architecture of cultures outside the Western mainstream including Pre-Columbian America, India and southeast Asia, China and Japan, Russia and Eastern Europe; and the Moslem Empires. Special emphasis on the cultural forces and conditions which shaped and evolved the architecture. Pictorial representation and visual studies of these structures will be taught through sketching and student presentation.

**ARCH 122 History of Architectural Theory**

3 hours lecture

Transfer acceptability: CSU

A study and analysis of the concepts and philosophies that have influenced or been the basis of architectural form from the Classical period to the present. The analysis will include the use of drawing and model-building tools to gain an understanding of these principles applied to specific structures throughout history.

**ARCH 135 Architectural Materials and Methods of Construction**

1½ hour lecture - 4½ hours laboratory

Transfer acceptability: CSU

A hands-on study of the physical samples of building construction, field visits, and permit processing of projects.

**ARCH 145 Designing for Communication and Presentation**

1½ hour lecture - 4½ hours laboratory

Recommended preparation: ID/ARCH 150

Note: May not be taken for Pass/No Pass grading

Transfer acceptability: CSU; UC

A drawing, sketching and design exploration of complex architectural modeling including theory, principles and techniques of pictorial drawing, perspective projection, obliques, isometrics, shades, shadows and color. Presentation by hand sketching, AutoCAD, Photoshop and Sketchup tools will be used.

**ARCH 150 Computer Aided Drafting for Designers (CADD)**

1½ hour lecture - 4½ hours laboratory

Note: Cross listed as ID 150

Transfer acceptability: CSU

An introduction to beginning computer aided drafting for architecture and interior design applications using Windows based AutoCAD software and IBM compatible computers. Beginning techniques in the operation of CAD software, design processes and editing techniques, storage and retrieval of drawings, professional presentation and plotting techniques.

**ARCH 160 Environmental Architecture and Design**

1½ hour lecture - 4½ hours laboratory

Note: May not be taken for Pass/No Pass grading

Transfer acceptability: CSU; UC

Introduction to the theory and application of bio-climate adaptive architectural design in small scale buildings. Includes effective energy use, solar geometry, environmental measurements, heat flow, heat transfer, and thermal masses. Emphasis on design and construction principles for lighting, passive shading, heating, cooling and ventilating envelope load-dominated buildings.

**ARCH 196 Special Problems in Architecture**

3, 6, or 9 hours laboratory

Note: May not be taken for Pass/No Pass grading

Transfer acceptability: CSU; UC - credit determined by UC upon review of course syllabus

Designed to enrich the student’s experience within the Architecture program and is of a research or special project nature. Content to be determined by the need of the student under signed contract with the instructor.

**ARCH 197 Architecture Topics**

1½-4 hours lecture - ½-12 hours laboratory

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of above lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Transfer acceptability: CSU

Topics in Architecture. See class schedule for specific topic covered. Course title will designate subject.
PROGRAMS OF STUDY

Art History (AA-T)

AA-T TRANSFER MAJOR

The Associate in Arts in Art History for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Art History. In addition, completing the course work will meet the humanities competency requirement at many colleges and universities. Students may receive humanities credit on general education patterns for both the CSU and UC systems. It will also provide instruction for students seeking visual analytic skills and research knowledge for a variety of other disciplines.

Pursuant to SB1440, the following completion requirements must be met:

1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2) Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

Program Requirements

Required Core: (9 units)

ART 102 Foundations of Drawing 3
ART 165 History of Art I - Survey of Western Art 3
ART 166 History of Art II - Survey of Western Art 3

List A: Select one course (3 units)

ART 163 Arts of Asia 3
ART 164 Arts of Africa, Oceania and the Americas 3

List B: Select one course (3 units)

ART 104 Design and Composition 3
ART 105 Three-Dimensional Form and Design 3
ART 120 Foundations of Life Drawing 3
ART 135 Ceramics I 3
PHOT 100 Elementary Film and Darkroom Photography 3

List C (3 units)

ART 169 Survey of Modern Art 3

TOTAL UNITS 18

Digital Animation, Compositing, and Music (CP)

This program is directed at the digital design and implementation of 3D animations, graphic compositing and music.

CERTIFICATE OF PROFICIENCY

Program Requirements

(Select five courses)

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
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<tr>
<td>ARTI 246 Digital 3D Design and Modeling</td>
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<td>ARTI 247 Digital 3D Design and Animation</td>
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<tr>
<td>GCMM 204 Motion Graphics for Multimedia</td>
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<td>GCMM 206 Motion Graphics Production and Compositing</td>
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<td>MUS 180 Computer Music I</td>
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<td>MUS 184 Electronic Ensemble</td>
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</tbody>
</table>

TOTAL UNITS 13 – 15

Digital Animation, Compositing, and Music Certificate of Proficiency is also listed in Graphic Communications - Multimedia and Web, and in Music.
Graphic Design (AS)

Prepares students in basic skills necessary to prepare a portfolio for application to Graphic Design, Environmental Design, and Packaging Design programs at 4 year schools. In addition, develops creative design ability and conceptual skills in the printed media, motion graphics, and web design.

A.S. DEGREE MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
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<td>ART 104</td>
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<td>ART 166</td>
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<td>ART 200</td>
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<td>ARTD 220</td>
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<td>ARTD 246</td>
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Electives (Select 6-7 units)

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<td>ARTI 220</td>
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<td>ART 120</td>
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<td>CE 100</td>
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</table>

TOTAL UNITS 36 - 37

Graphic Design A.S. Degree Major is also listed in Art-Design.

Illustration (AS)

Provides students with specific skills necessary to prepare a portfolio for application to Illustration programs at 4-year schools. In addition develops creative conceptual and illustrative skills for use in advertising and story illustration.

A.S. DEGREE MAJOR

Program Requirements

<table>
<thead>
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<th>Course</th>
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</thead>
<tbody>
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<td>ART 104</td>
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Electives (Select 6 units)

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<td>BMGT 105</td>
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</tbody>
</table>

TOTAL UNITS 36

Illustration A.S. Degree Major is also listed in ARTI – Illustration.

Interactive Media Design

Prepares students with specific skills necessary for employment in the field of multimedia design and production. Students may choose an emphasis in either 3D modeling and animation, which emphasizes production skills and authoring systems, or multimedia design, which emphasizes content development and visual design of multimedia productions. Both areas of emphasis collaborate on an actual multimedia production.

Emphasis in 3D Modeling and Animation (AS, CA)

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<td>ARTI 246</td>
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Electives (Select two courses)

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<td>ARTI 248</td>
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</table>

TOTAL UNITS 29 – 30

Interactive Media Design A.S. Degree or Certificate of Achievement is also listed in Drafting Technology and in Graphic Communications - Multimedia and Web.

Emphasis in Multimedia Design (AS, CA)

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
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<td>ARTD 247</td>
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Electives (Select two courses)

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<td>MUS 180</td>
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</tbody>
</table>

TOTAL UNITS 30

Interactive Media Design A.S. Degree or Certificate of Achievement is also listed in Drafting Technology and in Graphic Communications - Multimedia and Web.
**Pictorial Arts - Emphasis in Painting (AA)**

This program is designed to serve as preparation for transfer to a four-year college or university, as well as enable the student to acquire skills in producing marketable fine art for gallery exhibition and commissions, or to enter into the commercial area.

The required courses for this degree transfer as lower division credits into participating CSU programs.

Transfer students are encouraged to consult Assist.org and four-year college or university catalogs for specific requirements, as well as see a Palomar College counselor.

### A.A. DEGREE MAJOR

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Foundations of Drawing</td>
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<tr>
<td>ART 104</td>
<td>Design and Composition</td>
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<td>ART 105</td>
<td>Three-Dimensional Form and Design</td>
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<tr>
<td>ART 165</td>
<td>History of Art I - Survey of Western Art</td>
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<td>ART 120</td>
<td>Foundations of Life Drawing</td>
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<td>ART 200</td>
<td>Color Theory</td>
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<tr>
<td>ART 220</td>
<td>Introduction to Painting</td>
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<tr>
<td>ART 166</td>
<td>History of Art II - Survey of Western Art</td>
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<td>ART 106</td>
<td>Life Painting</td>
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<td>ART 235</td>
<td>Watercolor Painting I</td>
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**Electives (select 6 units)**

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<tr>
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<td>ART 221</td>
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<td>ART 236</td>
<td>Watercolor Painting II</td>
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<td>ARTD 150</td>
<td>Digital Concepts and Techniques in Art</td>
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<td>ARTI 210</td>
<td>Illustration I - Rendering Techniques</td>
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<tr>
<td>ARTI 220</td>
<td>Illustration II, Digital Techniques</td>
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</table>

**TOTAL UNITS** 36

**Emphasis in Ceramics (AA)**

The Associate in Arts in Studio Arts for Transfer is designed to prepare students for a seamless transfer to complete a baccalaureate degree in Studio Arts and fulfill lower division transfer preparation in Studio Arts for the CSU system. Students will gain the fundamental skills, as well as the academic foundation of knowledge in Studio Arts through study of theory, engagement in practice and the investigation of media. Emphasis is on design and composition in painting and drawing placed within historical and contemporary context.

Students are encouraged to speak to Palomar College counselors and Art department faculty, as well as consult Assist.org and university catalogues for more transfer information.

Pursuant to SB 1440, the following completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

### A.A. DEGREE MAJOR

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
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<td>ART 101</td>
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<td>ART 104</td>
<td>Design and Composition</td>
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<td>ART 105</td>
<td>3-Dimensional Form and Design</td>
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<tr>
<td>ART 135</td>
<td>Ceramics I</td>
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<tr>
<td>ART 136</td>
<td>Ceramics II</td>
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<tr>
<td>ART 137</td>
<td>Pottery Production</td>
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<td>ART 266</td>
<td>Ceramic Sculpture II</td>
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<td>ART 165</td>
<td>History of Art I</td>
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<tr>
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<td>ART 250</td>
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<tr>
<td>ART 265</td>
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<tr>
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<td>ART 156</td>
<td>Glass Casting I</td>
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<td>ART 255</td>
<td>Foundry Technique in Sculpture II</td>
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<td>ART 260</td>
<td>Sculpture I</td>
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<td>ART 278</td>
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<td>ART 160</td>
<td>Glassblowing/Glassforming I</td>
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<tr>
<td>ART 261</td>
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**TOTAL UNITS** 36
### Emphasis in Crafts (AA)

**A.A. DEGREE MAJOR**

<table>
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<tr>
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<td>ART 104 Design and Composition</td>
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<td>ART 105 3-Dimensional Form and Design</td>
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<tr>
<td>ART 135 Ceramics I</td>
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<tr>
<td>ART 145 Design in Mixed Media</td>
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<tr>
<td>ART 147 Design in Enamels</td>
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<tr>
<td>ART 150 Jewelry and Metallsmithing Design I</td>
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<td>ART 165 History of Art I</td>
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<td>ART 166 History of Art II</td>
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<td>ART 260 Sculpture I</td>
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**Electives (Select 6 units)**

| ART 136 Ceramics II                  | 3     |
| ART 140 Foundry Techniques in Sculpture I | 3     |
| ART 151 Jewelry and Metallsmithing Design II | 3     |
| ART 155 Stained Glass I              | 3     |
| ART 261 Sculpture II                 | 3     |
| ART 270 Jewelry and Metallsmithing Design III | 3     |
| ART 275 Stained Glass II             | 3     |
| PHOT 100 Elementary Film and Darkroom Photography | 3     |

**TOTAL UNITS** 39

### Emphasis in Glass (AA)

**A.A. DEGREE MAJOR**

<table>
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<td>ART 105 3-Dimensional Form and Design</td>
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<td>ART 156 Glass Casting</td>
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<tr>
<td>ART 160 Glassblowing/Glassforming I</td>
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<td>ART 165 History of Art I</td>
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<tr>
<td>ART 166 History of Art II</td>
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<tr>
<td>ART 280 Glassblowing/Glassforming II</td>
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**Electives (Select 4-6 units)**

| ART 135 Ceramics I                    | 3     |
| ART 136 Ceramics II                   | 3     |
| ART 140 Foundry Techniques in Sculpture I | 3     |
| ART 155 Stained Glass I               | 3     |
| ART 260 Sculpture I                   | 3     |
| ART 265 Ceramic Sculpture I           | 3     |
| ART 270 Glass Casting II              | 3     |

**TOTAL UNITS** 33

### Emphasis in Sculpture (AA)

**A.A. DEGREE MAJOR**

<table>
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<tr>
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<td>ART 145 Design in Mixed Media</td>
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<tr>
<td>ART 150 Jewelry and Metallsmithing Design I</td>
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<td>ART 160 Glassblowing/Glassforming I</td>
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<tr>
<td>ART 205 Indirect Metal Forming</td>
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<tr>
<td>ART 255 Foundry Techniques/Sculpture II</td>
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**TOTAL UNITS** 42

### Emphasis in Jewelry and Metallsmithing (AA)

**A.A. DEGREE MAJOR**

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<td>ART 165 History of Art I</td>
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### COURSE OFFERINGS

Individual courses are not repeatable. State Regulations (Title 5, Sections 55040-55041) also limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Art have limitations on the number of times a student may enroll. Specific information about enrollment limitations for ART classes is available at [http://www.palomar.edu/schedule/restrictions.htm](http://www.palomar.edu/schedule/restrictions.htm)

**ART 100 Introduction to Art**

- 3 hours lecture
- **Transfer acceptability:** CSU; UC
- Promotes an understanding and appreciation of art through slide-lectures, discussion, and museum visits. For non-art majors.

**ART 101 Methods and Materials**

- 1½ hours lecture - 4½ hours laboratory
- **Transfer acceptability:** CSU
- Introduction to the aesthetic and technical potential of a variety of materials and methods basic to various art disciplines. Concentration on the skills needed to use these materials in a two- and three-dimensional art.
ART 102  Foundations of Drawing  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
C-ID ARTS 110  
Introduction to principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. Focus on perceptually based drawing, observational skills, technical abilities, and creative responses to materials and subject matter.

ART 103  Intermediate Drawing  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of 'C' in ART 102  
Transfer acceptability: CSU; UC  
C-ID ARTS 205  
Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Builds on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing.

ART 104  Design and Composition  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
C-ID ARTS 100  
Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments.

ART 105  Three-Dimensional Form and Design  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
C-ID ARTS 101  
Basic instruction in sculptural forms and structures. Charts the development of spatial relations from point to line to plane to volume to complex forms and materials. A variety of media is explored.

ART 106  Life Painting  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
Examines the use of oil, acrylic or watercolor in modeling the human form. Particular attention will be placed on color mixing, drawing and paint application.

ART 107  Life Drawing  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
C-ID ARTS 200  
Introduction to drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure.

ART 121  Intermediate Life Drawing  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of 'C' in ART 120  
Transfer acceptability: CSU; UC - Credit Limitations - Credit for only one attempt  
An advanced investigation of the human figure as the primary subject of composition in historical and contemporary art. Developed for the advanced painting or illustration majors to aid in the preparation of entry portfolios required for admittance to specialized private four year institutions.

ART 125  Introduction to Portraiture  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
Introduction to portraiture. Special emphasis is placed on the historical and contemporary role of portraiture in art. Techniques range from traditional approaches to expressive application of drawing and painting media.

ART 135  Ceramics I  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
An introduction to basic forming techniques in clay and various surface treatments.

ART 140  Foundry Techniques in Sculpture I  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of 'C' in ART 105  
Transfer acceptability: CSU  
Theory and practice in casting skills using foundry techniques.

ART 147  Design in Enamels  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU  
Exploration of the creative and aesthetic possibilities of enameling. Principles and techniques in two- and three-dimensional designs.

ART 150  Jewelry and Metalsmithing Design I  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of 'C' in ART 150  
Transfer acceptability: CSU  
Projects in two- and three-dimensional jewelymaking and metalsmithing. Study of the relationship of design to materials and of contemporary metal working techniques.

ART 151  Jewelry and Metalsmithing Design II  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of 'C' in ART 150  
Transfer acceptability: CSU  
Exploration of manipulation of metal and surface decoration including stone setting.

ART 155  Stained Glass I  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of 'C' in ART 104  
Transfer acceptability: CSU  
Introduction to the materials and processes involved in the creation of flat glass objects. Emphasis on design potential and creative possibilities of the medium.

See Catalog addendum at http://www.palomar.edu/catalog
ART 156  Glass Casting I  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU  
This is a beginning level glass casting class. The course will address technical approaches and artistic applications of glass using kiln forming processes of casting, fusing, and slumping.

ART 160  Glassblowing/Glassforming I  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU  
An introductory course exploring creative applications and potential of glass as a means for artistic expression. Through hands-on material/process and artistic research students will gain an understanding of glassblowing and glass forming as an artist's medium.

ART 163  Arts of Asia  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
A survey of the visual arts from China, Southeast Asia, India, Japan and Korea, from the prehistoric to the present. Students will gain an understanding of the major monuments of Asian art within their historical, social, religious, and political frameworks.

ART 165  History of Art I: Survey of Western Art  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
The art forms and styles of Western man from the Paleolithic period through Medieval Gothic. Emphasis on the contribution of religion, social and political structures, heritage, and inter-cultural contacts as they influence changes in form and style.

ART 166  History of Art II: Survey of Western Art  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID ARTH I 20  
The art forms and styles of Western man from the Renaissance to the present. Emphasis on the style of individual artists and national styles as well as the contribution of religious, social, and political influences. Focus on European art, but with discussion of American art and architecture, as well as influences from non-Western art and cultures.

ART 169  Survey of Modern Art  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID ARTH I 50  
This course provides an overview of art and architecture from the Western modern period of the 19th and 20th centuries.

ART 182  Introduction to Arts Management  (3)  
9 hours laboratory  
Note: Cross listed as AMS 182/ DNCE 182/ MUS 182/ TA 182  
Transfer acceptability: CSU  
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

ART 183  Internship in Arts Management  (3)  
9 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in AMS/ART/DANCE/MUS/TA 182  
Note: Cross listed as AMS 183/ DNCE 183/ MUS 183/ TA 183  
Transfer acceptability: CSU  
Practical experience in arts management in the visual and performing arts.

ART 197B  Topics in Art – Painting  (3)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Short and extended term lecture-workshops or laboratory courses in various specialized aspects of painting.

ART 197C  Topics in Art – Glass  (5-3)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Short and extended term lecture workshops or laboratory courses in various specialized aspects of glass.

ART 197D  Topics in Art – Ceramics  (1-3)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Short and extended term lecture workshops or laboratory courses in various specialized aspects of ceramics.

ART 197E  Topics in Art – Sculpture  (5-3)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Short and extended term lecture-workshops or laboratory courses in various aspects of drawing techniques.

ART 197G  Topics in Art – Computer Art  (5-3)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Short and extended term lecture-workshops or laboratory courses in which a teacher utilizes and teaches special computer hardware/ software relationships and processes to produce art.

ART 197H  Topics in Art – General  (5-3)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Short and extended term lecture-workshops or laboratory courses in various aspects of art. Course title will designate subject covered.

ART 200  Color Theory  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU; UC  
C-ID ARTS 270  
Investigations into the phenomenon of color and its use in art. Problems involving color and design in various media, including acrylics and collage. Exploration of the role of color in Western art from late 19th Century to the present.

ART 205  Indirect Metal Forming  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in ART 150 or 260  
Transfer acceptability: CSU  
Exploration of indirect metal forming in jewelry and small sculpture. Projects in lost wax centrifugal and gravity casting, electroforming, and metal spraying.
ART 220 Introduction to Painting (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 102 and 200, or concurrent enrollment in ART 102 and 200
Transfer acceptability: CSU, UC
C-ID ARTS 210
Introduction to principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter.

ART 221 Painting (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 220
Transfer acceptability: CSU, UC
Advanced projects in painting concepts and techniques with concentration on individual creative progress and development in the context of art historical, contemporary and non-Western traditions and approaches.

ART 235 Watercolor Painting I (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU, UC
Fundamental approaches to the use of watercolors and other waterbase paints in creative painting. Concentration on both literal and expressive modes utilizing a variety of subjects.

ART 236 Watercolor Painting II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 235
Transfer acceptability: CSU, UC
Advanced work in watercolor media.

ART 250 Ceramics III (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 136
Transfer acceptability: CSU, UC
Creative and experimental handbuilding, advanced throwing, firing techniques, glaze evaluation, and special research.

ART 255 Foundry Techniques in Sculpture II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 140
Transfer acceptability: CSU, UC
Advanced theory and practices in casting skills using foundry techniques.

ART 260 Sculpture I (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 102 and 105, or concurrent enrollment in ART 102 and 105
Transfer acceptability: CSU, UC
Design and fabrication of expressive three-dimensional forms. Exploration of both historical and contemporary sculptural materials with emphasis on 20th Century models of expression.

ART 261 Sculpture II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 260
Transfer acceptability: CSU, UC
Advanced projects in the concept and creation of original sculpture.

ART 265 Ceramic Sculpture I (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 102 or 104 or 105, and ART 135
Transfer acceptability: CSU, UC
Creative projects and experimentation using clay as the primary material for non-utilitarian expressive forms.

ART 266 Ceramic Sculpture II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 265
Transfer acceptability: CSU, UC
Advanced problems in creative and experimental uses of clay for non-utilitarian expressive forms.

ART 270 Jewelry and Metalsmithing Design III (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 151
Transfer acceptability: CSU
Continued exploration of the manipulation of metal. Advanced projects in jewelry and metalsmithing.

ART 275 Stained Glass II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 155
Transfer acceptability: CSU
Creative expression in flat glass. Emphasis on architectural and fine arts application of the medium. Painting, enameling, and etching techniques will be explored in depth.

ART 278 Glass Casting II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: ART 156
Transfer acceptability: CSU, UC
Intermediate level course provides students with a deeper understanding of glass casting and kilnforming processes. Builds knowledge and techniques to develop individual artistic sensibilities with kiln glass.

ART 280 Glassblowing/Glassforming II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ART 160
Transfer acceptability: CSU
Intermediate level creative exploration and research in fine art applications of hot and cold glass forming techniques.

ART 290 Glassblowing/Glassforming III (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: ART 280
Transfer acceptability: CSU
An advanced level course exploring creative applications of glass as a professional practice. Emphasis is placed on honing skills and techniques for producing one-of-a-kind objects and production processes. Through hands-on experience, students will gain a deeper understanding of glassblowing and cold glass forming processes for developing unique vessels and sculpture. Provides information on presentation and documentation of glass art relevant to building a portfolio.

ART 295 Directed Study in Art (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: A minimum grade of ‘C’ in 18 units of college-level art including ART 102, 104 or 105, 156, and 166, and instructor’s approval of proposed project or research
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Independent study for advanced students dealing with projects or research in areas not covered by regular classes. Students will work under the guidance of an instructor.

ART 296 Special Projects (1, 2, 3)
2, 4, or 6 hours laboratory
Prerequisite: A minimum grade of ‘B’ in 6 units of college-level course work in a specialized area of art, and instructor’s approval of the proposed project
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
A course for the student who has demonstrated a proficiency in art and wishes to work beyond existing classes or desires to pursue a project which does not fit into the context of existing classes. Students will work directly with an instructor.

See Catalog addendum at http://www.palomar.edu/catalog
Art - Design (ARTD)

Contact the Art Department for further information.
760-744-1150, ext. 2302
Office: D-14
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

Graphic Design (AS)

Prepares students in basic skills necessary to prepare a portfolio for application to Graphic Design, Environmental Design, and Packaging Design programs at 4 year schools. In addition, develops creative design ability and conceptual skills in the printed media, motion graphics, and web design.

A.S. DEGREE MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 104</td>
<td>Design and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ART 166</td>
<td>History of Art II - Survey of Western Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 200</td>
<td>Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 100</td>
<td>Concept Sketching</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 100</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 150</td>
<td>Digital Concepts and Techniques in Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 200</td>
<td>Graphic Design II - Lettering and Layout</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 210</td>
<td>Typography Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 220</td>
<td>Motion Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 246</td>
<td>Digital 3D Design and Modeling</td>
<td>3</td>
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<td></td>
<td>Final Art Portfolio Review</td>
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Electives (Select 6-7 units)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ARTI 247</td>
<td>Digital 3D Design and Animation</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 248</td>
<td>Digital 3D Design and Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 220</td>
<td>Illustration II, Digital Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Foundations of Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 100</td>
<td>Elementary Film and Darkroom Photography</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 105</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>CE 100</td>
<td>Cooperative Education</td>
<td>1 - 4</td>
</tr>
</tbody>
</table>

TOTAL UNITS | 36 - 37 |

Graphic Design A.S. Degree Major is also listed in Art.

COURSE OFFERINGS

Individual courses are not repeatable. State Regulations (Title 5, Sections 55040-55041) also limit the number of of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Art – Design have limitations on the number of times a student may enroll. Specific information about enrollment limitations for Art – Design classes is available at http://www.palomar.edu/schedule/restrictions.htm

ARTD 100 Graphic Design I

1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU

Design principles as they apply to graphic communication. Abstract and pictorial Design for the printed media. Film and architectural signage. Lettering is applied as an abstract Design element.

ARTD 150 Digital Concepts and Techniques in Art

1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU; UC

An overview of vector based and pixel based computer applications, and how they are used in a creative environment. Understanding of the underlying logic of computer software will be taught with an emphasis on the role of the computer in all forms of modern art-making. Students will learn how to use the computer as a tool effectively while developing their own method of creating digital artwork. Cross-platform issues will be addressed, as well as file preparation for various output media.

ARTD 200 Graphic Design II – Lettering and Layout

1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in ARTD 100
Recommended preparation: ARTD 150
Transfer acceptability: CSU

The study of the historical roots and nomenclature of lettering forms and the development of grid systems to aid in the development of successful layout designs. Design and assembly utilizing both hand skills and computer software will be taught.

ARTD 210 Typography Design

1½ hours lecture - 4½ hours laboratory
Recommended preparation: ARTD 150
Transfer acceptability: CSU

Introduction to the historical roots and contemporary technology of typography. Provides a critical analysis of technical processes and elements through assignments that define its symbolic and communicative aspects.

ARTD 220 Motion Design

1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU

An introduction to the concepts and techniques of animation and multimedia for personal computers using After Effects. Emphasis will be placed on the role of the artist and in the development process and as a key link in determining the success of the final project.

ARTD 240 3D Printing for Artists

1½ hours lecture - 4½ hours laboratory
Recommended Preparation: ARTI 246
Transfer acceptability: CSU

An overview of processes and techniques of 3D printing and its specific application towards both the commercial and fine arts.
Art - Illustration (ARTI)

Contact the Art Department for further information.
760-744-1150, ext. 2302
Office: D-14

A.S. DEGREE MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 104  Design and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ART 120  Foundations of Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 166  History of Art II</td>
<td>3</td>
</tr>
<tr>
<td>ART 200  Color Theory</td>
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<tr>
<td>ARTD 150  Digital Concepts and Techniques in Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 220  Motion Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 100  Concept Sketching</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 210  Illustration I</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 220  Illustration II, Digital Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 246  Digital 3D Design and Modeling</td>
<td>3</td>
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<tr>
<td>Final Art Portfolio Review</td>
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Electives (Select 6 units)

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<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 121  Intermediate Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 125  Introduction to Portraiture</td>
<td>3</td>
</tr>
<tr>
<td>ART 220  Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 235  Watercolor Painting I</td>
<td>3</td>
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<tr>
<td>ARTD 100  Graphic Design I</td>
<td>3</td>
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<tr>
<td>ARTI 247  Digital 3D Design and Animation</td>
<td>3</td>
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<tr>
<td>ARTI 248  Digital 3D Design and Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 105  Small Business Management</td>
<td>3</td>
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</tbody>
</table>

TOTAL UNITS 36

Illustration A.S. Degree Major is also listed in ART.

COURSE OFFERINGS

Individual courses are not repeatable. State Regulations (Title 5, Sections 55040-55041) also limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Art – Illustration have limitations on the number of times a student may enroll. Specific information about enrollment limitations for Art – Illustration classes is available at http://www.palomar.edu/schedule/restrictions.htm

ARTI 100  Concept Sketching  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU

Visual concept development through dynamic sketching, ranging from preparatory to presentation drawings. Included is the study of perspective and drawing of mechanical and natural forms and environments by the use of line and value. Emphasis is placed on the progressive development of visual ideas.

ARTI 210  Illustration I - Rendering Techniques  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU

Content reflects the types of assignments an illustrator may encounter in the industry, using a variety of traditional media and techniques. Contemporary principles of concept development and problem solving will be explored, using stylization, design, composition and color as methods of communication. Accurate analysis, historical reference, oral and graphic presentation of ideas, sketches and finished art will be stressed.

ARTI 220  Illustration II – Digital Techniques  (3)  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in ARTI 210  
Transfer acceptability: CSU

A course for advanced illustration students that focuses on creating non-traditional professional level commercial artwork. Media experimentation, and combination of traditional methods with digital applications is used to create finished pieces that are conceptually and visually interesting and strong. Students are encouraged to develop and strengthen personal and distinctive approaches to Illustration. Portfolio preparation for admission to high quality 4-year art and design programs, or for entry into the work force will be examined and applied. Students will also gain insight into self-promotion and marketing strategies. Contracts, self-employment issues and billing procedures will be explained.

ARTI 246  Digital 3D Design and Modeling  (3)  
1½ hours lecture - 4½ hours laboratory  
Recommended preparation: ARTD 150  
Transfer acceptability: CSU

Fundamentals of computerized 3-D modeling and Design. Hands on experience with modeling, lighting, developing texture maps and rendering.

ARTI 247  Digital 3D Design and Animation  (3)  
1½ hours lecture - 4½ hours laboratory  
Recommended preparation: ARTD 220  
Transfer acceptability: CSU

Concepts and techniques of 3-dimensional animation using Maya software. The course will provide an understanding of the production, animation and postproduction process.

ARTI 248  Digital 3D Design and Sculpture  (3)  
1½ hours lecture - 4½ hours laboratory  
Transfer acceptability: CSU

Concepts and techniques of digital sculpting using ZBrush software. The course will provide an understanding of high detail polygon modeling and the use of mapping techniques to transfer detail to low polygon models.

Astronomy (ASTR)

Contact the Earth, Space, and Environmental Sciences Department for further information.
760-744-1150, ext. 2512
Office: NS-110G

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

For transfer information, consult a Palomar College Counselor.

Planetarium

The Planetarium is part of the Earth, Space, and Aviation Sciences Department at Palomar College. Several types of planetarium programs are offered for the community including school programs for area elementary and secondary schools. The planetarium also offers evening shows throughout each month, open to students of Palomar College and the general public. For further information, visit www.palomar.edu/planetarium or contact the planetarium at planetarium@palomar.edu or (760) 744-1150, ext. 2833.
PROGRAM OF STUDY

Astronomy (AS, CA)

Provides the student with sufficient background to begin upper division course work. Transfer students should consult the four year college or university catalog for specific requirements or see a Palomar College counselor. Students pursuing a major in Astronomy at San Diego State University must complete a minor in Mathematics.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>ASTR 100 Principles of Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 105L Introduction to Astronomy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ASTR/GEOL 120 Planets, Moons and Comets</td>
<td>3</td>
</tr>
<tr>
<td>MATH 140 Calculus/Analytic Geometry, First Course</td>
<td>5</td>
</tr>
<tr>
<td>MATH 141 Calculus/Analytic Geometry, Second Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 205 Calculus/Analytic Geometry, Third Course</td>
<td>4</td>
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<tr>
<td>PHYS 230 Principles of Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 231 Principles of Physics</td>
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<td>PHYS 232 Principles of Physics</td>
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TOTAL UNITS 34

Recommended Electives: ASTR 210, 295

COURSE OFFERINGS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>ASTR 100</td>
<td>Principles of Astronomy</td>
<td>(3)</td>
</tr>
<tr>
<td>ASTR 105L</td>
<td>Introduction to Astronomy Laboratory</td>
<td>(1)</td>
</tr>
<tr>
<td>ASTR 120</td>
<td>Planets, Moons, and Comets</td>
<td>(3)</td>
</tr>
<tr>
<td>ASTR 210</td>
<td>Life in the Universe</td>
<td>(3)</td>
</tr>
<tr>
<td>ASTR 295</td>
<td>Directed Study in Astronomy</td>
<td>(1, 2, 3)</td>
</tr>
<tr>
<td>MATH 140</td>
<td>Calculus/Analytic Geometry, First Course</td>
<td>5</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus/Analytic Geometry, Second Course</td>
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<tr>
<td>MATH 205</td>
<td>Calculus/Analytic Geometry, Third Course</td>
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<tr>
<td>PHYS 230</td>
<td>Principles of Physics</td>
<td>5</td>
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<tr>
<td>PHYS 231</td>
<td>Principles of Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 232</td>
<td>Principles of Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

ASTR 210 Life in the Universe
3 hours lecture
Prerequisite: A minimum grade of 'C' in ASTR 100 or 120
Transfer acceptability: CSU
A scientific exploration of life in the universe using the findings of astronomy biology, and chemistry. Topics include the development of life and its environments on Earth, the search for life in the cosmos, interstellar communications and travel, and the effects of contact.

ASTR 295 Directed Study in Astronomy
Arrange 3, 6, or 9 hours laboratory with department chairperson
Prerequisite: A minimum grade of ‘C’ in ASTR 100 or 120
Transfer acceptability: CSU, UC - Credit determined by UC upon review of course syllabus

Athletics and Competitive Sports

Contact the Athletics Department for further information.
760-744-1150, Ext. 2460
Office: O-10

The intercollegiate athletics program at Palomar College is one of the most comprehensive and diverse among the California Community Colleges, featuring 22 varsity sport programs and over 450 student participants annually. Palomar fields intercollegiate teams in the following men’s sports: baseball, basketball, cross country, football, golf, soccer, swimming and diving, tennis, volleyball, water polo, and wrestling. The list of women’s sports includes: basketball, cross country, golf, beach volleyball, soccer, softball, swimming and diving, tennis, track and field, volleyball, and water polo. Additionally, the Athletic Department oversees a co-educational cheerleading program. Students must meet the eligibility standards of the California Community College Athletic Association in order to represent the institution athletically.

Prospects for Palomar College intercollegiate athletic teams may not participate in an official practice or competition, nor be issued equipment or apparel from athletic equipment management without departmental verification of the following items:

1. Current and active full-time enrollment in good standing at Palomar College. (Full-time enrollment defined as enrollment in a minimum of 12 semester units, nine (9) of which must be in academic course work leading to a certificated degree and/or transfer to the four-year level.)
2. Qualification of CCCAA athletic and academic eligibility standards.
3. Satisfactory physical examination by a physician (medical doctor) approved by Palomar College.
4. Health insurance evaluation by the Palomar College Athletic Training Staff.
5. Participate in the Palomar College Athletic Academic Advisement Program which includes:
   a. Establishment of an Individual Education Plan by October 15th for Fall-sport athletes and by March 15th for Spring-sport athletes.
   b. Assessment of academic course progress conducted each semester.

INTERCOLLEGIATE ATHLETIC COURSE OFFERINGS

Students enrolled in an Athletic and Competitive Sport are limited to 175 contact hours per year in Kinesiology courses that focus on conditioning or skill development for that respective sport. Specific information about enrollment limitations for Kinesiology classes is available at http://www.palomar.edu/schedule/restrictions.htm

Courses numbered under 100 are not intended for transfer credit.
Athletics and Competitive Sports

ACS 50 Introduction to Collegiate Athletics (1)
1 hour lecture
Program for matriculation, eligibility rules, exploring and identifying major emphasis of study, academic success skills, educational planning as it relates to transfer as a student athlete.

ACS 55 Cheerleading (1, 2)
3 or 6 hours laboratory
Prerequisite: Enrollment subject to audition
Note: This class will require travel away from the college on weekends and other dates
Designed to teach the fundamentals of cheerleading. Explores practical and theoretical aspects of competitive and non-competitive cheerleading. Students will acquire knowledge of, and respect for, the skills needed to perform at college events and competition.

ACS 101 Intercollegiate Softball (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides women with the opportunity to develop advanced skills and strategies in intercollegiate softball which will be applied to competitive situations.

ACS 110 Intercollegiate Basketball (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate basketball which will be applied to competitive situations.

ACS 115 Intercollegiate Golf (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides students with the opportunity to develop advanced skills and strategies in intercollegiate golf which will be applied to competitive situations.

ACS 120 Intercollegiate Tennis (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate tennis which will be applied to competitive situations.

ACS 125 Intercollegiate Soccer (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate soccer which will be applied to competitive situations.

ACS 130 Intercollegiate Volleyball (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate volleyball which will be applied to competitive situations.

ACS 135 Intercollegiate Swimming and Diving (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
This course provides men and women with the opportunity to develop advanced skills and the strategies in intercollegiate swim/diving which will be applied to competitive situations.

ACS 140 Intercollegiate Water Polo (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate water polo which will be applied to competitive situations.

ACS 145 Intercollegiate Football (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides students with the opportunity to develop advanced skills and strategies in intercollegiate football which will be applied to competitive situations.

ACS 150 Intercollegiate Wrestling (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides students with the opportunity to develop advanced skills and strategies in intercollegiate wrestling which will be applied to competitive situations.

ACS 155 Intercollegiate Baseball (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides students with the opportunity to develop advanced skills and strategies in intercollegiate baseball which will be applied to competitive situations.

ACS 160 Intercollegiate Cross Country (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate cross country which will be applied to competitive situations.

ACS 165 Intercollegiate Track and Field (3)
9 hours laboratory
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units
This course provides students with the opportunity to develop advanced skills and the strategies in intercollegiate track and field which will be applied to competitive situations.

ACS 180 Intercollegiate Sand Volleyball (3)
9 hours laboratory
Transfer acceptability: CSU; UC
Provides women with the opportunity to develop advanced skills and strategies in intercollegiate sand volleyball which will be applied to competitive situations.

ACS 197 Topics in Athletics and Competitive Sports (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units.
Topics in Athletics and Competitive Sports. See Class Schedule for specific topic offered. Course title will designate subject covered.

See Catalog addendum at http://www.palomar.edu/catalog
**Auto Body (AB)**

Contact the Trade and Industry Department for further information.
760-744-1150, ext. 2545
Office: T-102A

**Auto Collision Repair (AS, CA)**

This program will prepare students for an entry level position in the automotive collision repair industry.

### A.S. DEGREE MAJOR OR
### CERTIFICATE OF ACHIEVEMENT

#### Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>AB 50</td>
<td>Auto Body Repair I</td>
<td>3</td>
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<tr>
<td>AB 51</td>
<td>Auto Body Repair II</td>
<td>3</td>
</tr>
<tr>
<td>AB 55</td>
<td>Auto Refinishing I</td>
<td>3</td>
</tr>
<tr>
<td>AB 56</td>
<td>Auto Refinishing II</td>
<td>3</td>
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<tr>
<td>IT/WELD 108</td>
<td>Technical Mathematics</td>
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#### Elective Courses (Select 6 units)

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<td>AT 100</td>
<td>Auto Maintenance and Minor Repair</td>
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<tr>
<td>AT 105</td>
<td>Automotive Electricity</td>
<td>3</td>
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<tr>
<td>AT 105L</td>
<td>Automotive Electricity Computer Training Lab</td>
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<tr>
<td>AB 97</td>
<td>Auto Body Repair/Auto Refinishing Topics</td>
<td>.5 - 4</td>
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<tr>
<td>AT 105</td>
<td>Chassis Restoration and Assembly</td>
<td>3</td>
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<tr>
<td>AT 170</td>
<td>Auto Repair Shop Experience</td>
<td>2</td>
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<tr>
<td>WELD 100</td>
<td>Welding</td>
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<tr>
<td>CE 100</td>
<td>Cooperative Education</td>
<td>1 - 4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS**

### COURSE OFFERINGS

**AB 50**  
Auto Body Repair I  
(Formerly AT 50)  
1½ hours lecture - 4½ hours laboratory
Automotive body work with emphasis on repair. Includes welding; working with small damage points; restoring contour of body panels and sections; and realigning bumpers, fenders, doors, and hoods.

**AB 51**  
Auto Body Repair II  
(Formerly AT 51)  
1½ hours lecture - 4½ hours laboratory
Automotive body work with emphasis on increasing diagnostic, estimating and repair skills and updating techniques and related technologies. Introduction to collision industry standards including I-CAR and ASE.

**AB 55**  
Auto Refinishing I  
(Formerly AT 55)  
1½ hours lecture - 4½ hours laboratory

**AB 56**  
Auto Refinishing II  
(Formerly AT 56)  
1½ hours lecture - 4½ hours laboratory
Recommended preparation: AB 55
Skill development in automotive refinishing techniques, including base-coat, clear-coat application; color matching concepts; and identification, prevention and correction of painting problems. New products, techniques, and trends will be covered.

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**AB 97**  
Auto Body Repair/Auto Refinishing Topics  
(.5 - 4)  
(Formerly AT 97)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Topics in auto body repair and auto refinishing. See Class Schedule for specific topic offered. Course title will designate subject covered.

**AB 105**  
Chassis Restoration and Assembly  
(Formerly AT 150)  
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in AT 100
Transfer acceptability: CSU
Covers basic disassembly and documentation of antique automotive chassis and components. Lab activities will focus on correct detailing and reassembly of vintage automobile chassis and related undercarriage elements.

---

**Automotive Technology (AT)**

Contact the Trade and Industry Department for further information.
760-744-1150, ext. 2545
Office: T-102A

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

### PROGRAMS OF STUDY

**Auto Chassis and Drive Lines (AS, CA)**

This program will prepare students for entry level positions in all aspects of the Automotive Industry with an emphasis in drive-line repair.

### A.S. DEGREE MAJOR OR
### CERTIFICATE OF ACHIEVEMENT

#### Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 105</td>
<td>Automotive Electricity</td>
<td>3</td>
</tr>
<tr>
<td>AT 105L</td>
<td>Automotive Electricity Computer Training Lab</td>
<td>1</td>
</tr>
<tr>
<td>AT 120</td>
<td>Automatic Transmissions and Drive Lines</td>
<td>3</td>
</tr>
<tr>
<td>AT 130</td>
<td>Automotive Brakes</td>
<td>3</td>
</tr>
<tr>
<td>AT 135</td>
<td>Front End Alignment and Wheel Service</td>
<td>3</td>
</tr>
<tr>
<td>AT 160</td>
<td>Associated Studies in Automotives</td>
<td>3</td>
</tr>
<tr>
<td>AT 170</td>
<td>Auto Repair Shop Experience</td>
<td>2</td>
</tr>
<tr>
<td>WELD 100</td>
<td>Welding</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WELD 100 Welding</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS**

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127
Electronic Tune Up and Computer Control Systems (AS, CA)

This program will prepare students for entry level positions in all aspects of the Automotive Industry with an emphasis in drive-ability concerns.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 105 Automotive Electricity</td>
<td>3</td>
</tr>
<tr>
<td>AT 105L Automotive Electricity Computer Training Lab</td>
<td>1</td>
</tr>
<tr>
<td>AT 110 Automotive Tune Up and Engine Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AT 110L Automotive Tune up and Computer Training Lab</td>
<td>1</td>
</tr>
<tr>
<td>AT 115 Automotive Fuel Injection and Fuel Systems</td>
<td>3</td>
</tr>
<tr>
<td>AT 115L Automotive Fuel Systems Computer Training Lab</td>
<td>1</td>
</tr>
<tr>
<td>AT 160 Associated Studies in Automotives</td>
<td>3</td>
</tr>
<tr>
<td>AT 210 Specialized Automotive Electronics</td>
<td>3</td>
</tr>
<tr>
<td>AT 215 Automotive Emission Control</td>
<td>3</td>
</tr>
<tr>
<td>IT/WELD 108 Technical Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (Select 6-7 units)

| AT 100 Auto Maintenance and Minor Repair | 3     |
| AT 165 Automotive Air Conditioning       | 2     |
| AT 170 Auto Repair Shop Experience      | 2     |
| DMT 130 Medium-Duty Diesel Engine Tune-Up | 4     |
| or                                       |       |
| DMT 105 Heavy-Duty Diesel Tune-Up and Engine Analysis | 4     |
| WELD 100 Welding I                      | 3     |
| CE 100 Cooperative Education            | 2 - 3 |

TOTAL UNITS 30 - 31

Mechanics-General (AS, CA)

This program will prepare students for entry level positions in all aspects of the Automotive Industry.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>AT 105 Automotive Electricity</td>
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<tr>
<td>AT 105L Automotive Electricity Computer Training Lab</td>
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<tr>
<td>AT 110 Automotive Tune up and Engine Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AT 110L Automotive Tune up and Computer Training Lab</td>
<td>1</td>
</tr>
<tr>
<td>AT 120 Automatic Transmissions and Drive Lines</td>
<td>3</td>
</tr>
<tr>
<td>AT 125 Automotive Machining</td>
<td>3</td>
</tr>
<tr>
<td>AT 130 Automotive Brakes</td>
<td>3</td>
</tr>
<tr>
<td>AT 160 Associated Studies in Automotives</td>
<td>3</td>
</tr>
<tr>
<td>AT 225 Automotive Engine Rebuilding</td>
<td>3</td>
</tr>
<tr>
<td>IT/WELD 108 Technical Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (Select 4 units)

| AB 50 Auto Body Repair I                  | 3     |
| AT 100 Auto Maintenance and Minor Repair  | 3     |
| AT 115 and Automotive Fuel Injection and Fuel Systems | 3     |
| AT 115L Automotive Fuel Systems Computer Training Lab | 1     |
| AT 165 Automotive Air Conditioning        | 2     |
| AT 170 Auto Repair Shop Experience       | 2     |
| WELD 100 Welding I                       | 3     |
| CE 100 Cooperative Education             | 2, 3, 4 |

TOTAL UNITS 30

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

AT 100 Auto Maintenance and Minor Repair (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Designed for the student with little or no background in the automotive field. The course covers many maintenance and minor repair items as well as basic theory of operation. The areas covered include batteries, cooling systems, drive belts, lubrication, brakes, tires, and consumer education.

AT 105 Automotive Electricity (2)
1 hour lecture - 3 hours laboratory
Corequisite: AT 105L
Transfer acceptability: CSU
Auto electrical systems including basic electrical theory, A.C. generators, batteries, starters, wiring diagrams, and/or electrical troubleshooting and repair.

AT 105L Automotive Electricity Computer Training Lab (1)
3 hours laboratory
Corequisite: AT 105
Transfer acceptability: CSU
The use of tune up testing and diagnostic equipment; the study of conventional and electronic ignition systems; compression, cylinder balance, and dynamometer testing.

AT 110 Automotive Tune Up and Engine Analysis (3)
2 hours lecture - 3 hours laboratory
Corequisite: AT 110L
Transfer acceptability: CSU
Students will use training computers to complete assignments in automotive electricity. Hi-tech automotive simulators and trainers will be used to enhance student learning. Software will also be used for Automotive Service Excellence (ASE) certification preparation.

AT 110L Automotive Tune Up Computer Training Lab (1)
3 hours laboratory
Corequisite: AT 110
Transfer acceptability: CSU
Students will use training computers to complete assignments in automotive engine performance. Hi-tech automotive simulators and trainers will be used to enhance student learning. Software will also be used for Automotive Service Excellence (ASE) certification preparation.

AT 115 Automotive Fuel Injection and Fuel Systems (3)
2 hours lecture - 3 hours laboratory
Corequisite: AT 115L
Transfer acceptability: CSU
The principles, technical knowledge, and work experience in the field of retion and fuel injection. Specific topics include four barrel carburetors; fuel injection; fuel supply systems; and combustion evaluation instruments.

AT 115L Automotive Fuel Systems Computer Training Lab (1)
3 hours laboratory
Corequisite: AT 115
Transfer acceptability: CSU
Students will use training computers to complete assignments in automotive fuel systems. Hi-tech automotive simulators and trainers will be used to enhance student learning. Software will also be used for Automotive Service Excellence (ASE) certification preparation.

AT 120 Automatic Transmissions and Drive Lines (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
The hydraulic and mechanical function and repair of automatic transmissions. The disassembly, inspection, reassembly, and testing of three speed conventional transmissions, clutches, universal joints, and differentials.

See Catalog addendum at http://www.palomar.edu/catalog
AT 125 Automatic Machining (3)  
1 1/2 hours lecture - 4 1/2 hours laboratory  
Transfer acceptability: CSU  
The various testing and machining operations involved in an automotive machine shop. Areas covered include cylinder head service and repair, connecting rod service, cylinder boring and honing, crankshaft service, and various other automotive machining and measuring techniques.

AT 130 Automotive Brakes (3)  
2 hours lecture - 3 hours laboratory  
Transfer acceptability: CSU  
The hydraulic and mechanical function of automotive brake systems. Brake troubleshooting, complete system repair, and overhaul of power, drum, and disc brakes. Preparation for the State Brake License.

AT 135 Front End Alignment and Wheel Service (3)  
2 hours lecture - 4 hours laboratory  
Transfer acceptability: CSU  
The repair and adjustment of the undercarriage of the automobile. Included are such areas as steering, geometry, turn radius, ball joints, toe track, camber, caster, suspension, bearing service, wheel balance, and tire wear identification. Preparation for the State Lamp License.

AT 160 Associated Studies in Automotives (3)  
3 hours lecture  
Transfer acceptability: CSU  
Applied science and technology as related to the automotive field. Areas covered include metrics, Ohms Law and electron theory, metal alloys and their properties and uses, thermal expansion, gas laws, limits and fits, and friction and torque.

AT 165 Automotive Air Conditioning (2)  
1 1/2 hours lecture - 1 1/2 hours laboratory  
Transfer acceptability: CSU  
The principles of operation and servicing of modern automotive air conditioning systems. Both lecture and lab time will be devoted to studying the refrigeration and heating system, ventilation and ducting, and the electrical system. Students will complete and receive their refrigerant license as well as be prepared for ASE certification.

AT 170 Auto Repair Shop Experience (2)  
6 hours laboratory  
Transfer acceptability: CSU  
The student gains valuable skill development in the maintenance, repair and diagnosis in automotive technology. The class runs in a similar format to an actual repair shop where students service cars supplied by the Palomar community.

AT 197 Topics in Automotive (5-3)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in automotive technology, See Class Schedule for the specific topic offered. Course title will designate subject covered.

AT 210 Specialized Automotive Electronics (3)  
2 hours lecture - 3 hours laboratory  
Recommended preparation: AT 105 or 110  
Transfer acceptability: CSU  
Electronic principles as they pertain to the automobile. Identification, diagnosis, repair, and verification of malfunctioning electronic components is the major objective of the course. Computer controls fundamentals and diagnosis of GM systems, 1981-1990.

AT 215 Automotive Emission Control (3)  
3 hours lecture - 2 hours laboratory  
Recommended preparation: AT 110 and 115  
Transfer acceptability: CSU  
Auto emission controls as prescribed by Federal Law and California Air Resources Board. Analysis and testing of emission controls will be presented. Study of current laws for state exam preparation.

AT 225 Automotive Engine Rebuilding (3)  
2 hours lecture - 4 hours laboratory  
Transfer acceptability: CSU  
The complete rebuilding of at least one automobile engine using the machine tools and techniques of industry.

Biology (BIOL)  
Contact the Biology Department for further information.  
760-744-1150, ext. 2275  
Office: NS-207A  
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Biology – General (AS, CA)  
Provides intensive lower division preparation for pursuing advanced studies in the Biological Sciences leading towards a Bachelor’s Degree and beyond.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Biology (BIOL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200 Foundations of Biology I</td>
</tr>
<tr>
<td>BIOL 201 Foundations of Biology II</td>
</tr>
<tr>
<td>CHEM 110 General Chemistry</td>
</tr>
<tr>
<td>CHEM 110L General Chemistry Laboratory</td>
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</table>

Group One (Select a minimum of 1 unit)

<table>
<thead>
<tr>
<th>Biology (BIOL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 141L Ecosystem Biology (Laboratory)</td>
</tr>
<tr>
<td>BIOL 195A Field Studies in Natural History</td>
</tr>
<tr>
<td>BIOL 195B Field Studies in Ecology</td>
</tr>
<tr>
<td>BIOL 195C Field Study of Native Plants</td>
</tr>
<tr>
<td>BIOL 195D Field Study of Birds</td>
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</table>

Group Two (Select a minimum of 16 units)

<table>
<thead>
<tr>
<th>Biology (BIOL)</th>
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<tbody>
<tr>
<td>BIOL 125 General Botany</td>
</tr>
<tr>
<td>or BIOL 126 General Botany Lecture</td>
</tr>
<tr>
<td>BIOL 126L General Botany Laboratory</td>
</tr>
<tr>
<td>BIOL 110 Human Genetics</td>
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<tr>
<td>BIOL 114 Ecosystem Biology (Lecture)</td>
</tr>
<tr>
<td>BIOL 118 General Ecology (Lecture)</td>
</tr>
<tr>
<td>BIOL 118L General Ecology (Laboratory)</td>
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<tr>
<td>BIOL 130 Marine Biology</td>
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<tr>
<td>or BIOL 131 Marine Biology (Lecture)</td>
</tr>
<tr>
<td>BIOL 131L Marine Biology (Laboratory)</td>
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<tr>
<td>BIOL 135 Biology of Marine Mammals</td>
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<tr>
<td>BIOL/NUTR 185 Science of Human Nutrition</td>
</tr>
<tr>
<td>BIOL 295 Directed Study in Life Science</td>
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<tr>
<td>BIOL 212 Fundamentals of Microbiology</td>
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<tr>
<td>BIOL 140 General Zoology</td>
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<tr>
<td>or BIOL 141 General Zoology (Lecture)</td>
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<tr>
<td>BIOL 141L General Zoology (Laboratory)</td>
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<tr>
<td>BIOL 120 Animal Behavior</td>
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<td>BIOL 145 Introduction to Anatomy and Physiology</td>
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<td>BIOL 145L Introduction to Anatomy and Physiology Laboratory</td>
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<td>BIOL 210 Anatomy</td>
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<tr>
<td>BIOL 211 Physiology</td>
</tr>
</tbody>
</table>

MINIMUM TOTAL UNITS 32

Recommended Electives: CHEM 100, 115, 115L; MATH 110, 115, 135, 140, 141; CSIT 105
Biology (AS-T)

**AS-T TRANSFER MAJOR**

The Associate in Science in Biology for Transfer provides students with a comprehensive study of the biological sciences as well as the supporting core to understand the dynamics of biology. The Associate in Science in Biology for Transfer is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in the major of Biology. Students completing the major will have a fundamental understanding of concepts and processes in molecular, cellular and organismal biology as well as ecology and evolution. In addition, students will have a solid foundation in math, physics and chemistry.

Pursuant to SB1440, the following completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   a. The Associate in Science in Biology for Transfer degree requires completion of the major and the CSU General Education for STEM or the IGETC for STEM, allowing completion of 6 units of non-stem GE work after transfer. Please see a counselor for details.
   b. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

**Required Core (8-12 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
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<td>Foundations of Biology I</td>
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</tr>
<tr>
<td>BIOL 201</td>
<td>Foundations of Biology II</td>
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</table>

**List A (21-22 units)**

<table>
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<tr>
<td>CHEM 110L</td>
<td>General Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 115L</td>
<td>General Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MATH 140</td>
<td>Calculus with Analytic Geometry, First Course</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 120</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>Principles of Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 231</td>
<td>Principles of Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 33 – 35

**Biology-Preprofessional (AS, CA)**

Provides intensive lower-division preparation for pursuing advanced studies in biological science, pre-medical, pre-dental, or pre-veterinarian programs leading towards a Bachelor’s degree and beyond.

Students are advised to consult catalogs of the institution to which they plan to apply to determine special or additional requirements, or see a Palomar College Counselor.

**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

<table>
<thead>
<tr>
<th>Program Requirements</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 110/110L</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115/115L</td>
<td>5</td>
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<tr>
<td>CHEM 220</td>
<td>5</td>
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<td>CHEM 221</td>
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<td>MATH 140</td>
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</tr>
<tr>
<td>MATH 141</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 39

Courses in the program are based upon recommendations given to pre-med students at UC Berkeley. Actual requirements will vary from school to school and will depend on specific student goals. Students must check with the professional schools (not transfer schools) to which they plan to apply for their specific requirements. Choice of courses will also depend upon the student’s major. Humanities majors, for example, can spread out pre-med coursework into their junior and senior years.

**Recommended Electives:** BIOL 211; MATH 205; PHYS 230, 231, 232

**COURSE OFFERINGS**

Courses numbered under 50 are non-degree courses.

Courses numbered under 100 are not intended for transfer credit.

**UC credit limitations –**

- BIOL 100, 101/101L, 102 and 200 combined: maximum credit, 5 units
- No credit for BIOL 100 and 101/101L if taken after 200 or 201
- No credit for BIOL 102 if taken after 100, 101/101L or 200 or 201
- BIOL 105, 106 and BIOL 145/145L combined: maximum credit, 4 units
- BIOL 114/114L, 118/118L combined: maximum credit, 4 units
- BIOL 130 and 131/131L combined: maximum credit 4 units
- BIOL 185, NUTR 165, NUTR 185, and HE 165 combined: maximum credit, one course

**BIOL 47 Biology Topics** (5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Non-degree Applicable

Topics in Biology. See class schedule for specific topic covered. Course title will designate subject covered.

**BIOL 100 General Biology** (4)

3 hours lecture - 3 hours laboratory

**Note:** Not open to students with prior credit in BIOL 101 or 101L, BIOL 102, BIOL 105, BIOL 106/106L

**Transfer acceptability:** CSU; UC*

Basic principles of general biology as they relate to the cellular, organismic, and population levels of organization. Includes cell ultrastructure and function, energy transfer, reproduction, genetics, evolution, diversity of organisms, and ecology. Not recommended for students interested in Biology, Zoology, Botany, Premed, or related majors (see Biology 200 and Biology 201).

**BIOL 101 General Biology (Lecture)** (3)

3 hours lecture

**Note:** Not open to students with prior credit in BIOL 100

**Transfer acceptability:** CSU; UC*

Basic principles of general biology as they relate to the cellular, organismic, and population levels of organization. Includes cell ultrastructure and function, energy transfer, reproduction, genetics, evolution, diversity of organisms, and ecology.

**BIOL 101L General Biology (Laboratory)** (1)

3 hours laboratory

**Prerequisite:** A minimum grade of “C” in BIOL 101 or 114, or concurrent enrollment in BIOL 101 or 114

**Note:** Not open to students with prior credit in BIOL 100, BIOL 102, BIOL 105, BIOL 106.

**Transfer acceptability:** CSU; UC*

Laboratory exercises in cell structure and function, energy transfer, reproduction, genetics, and ecology. This is a general education course intended for non-science majors.

See Catalog addendum at http://www.palomar.edu/catalog
BIOL 102  Molecules and Cells  (4)
3 hours lecture - 3 hours laboratory
Recommended preparation: MATH 50
Transfer acceptability: CSU; UC
The basic principles of biological systems including the chemistry of life, cell structure and function, energy transfer, cell division, classical and molecular genetics.

BIOL 105  Biology with a Human Emphasis  (4)
3 hours lecture - 3 hours laboratory
Note: Not open to students with prior credit in BIOL 100, BIOL 101/101L, BIOL 102, BIOL 106/106L.
Transfer acceptability: CSU; UC
Principles of cellular, organismal and population biology as exemplified by, and relating to, the human organism. Laboratory includes study of cells, tissues, and mammalian organ systems.

BIOL 106  Biology with a Human Emphasis (Lecture)  (3)
3 hours lecture
Note: Not open to students with prior credit in BIOL 100, 110/110L, 102, 105
Transfer acceptability: CSU; UC
Principles of cellular, organismal and population biology as exemplified by, and relating to, the human organism.

BIOL 108  Microbiology and Foods  (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as FCS 110
Transfer acceptability: CSU
Introduction to the principles of microbiology with an emphasis on foodborne pathogens. Students will explore biological factors and controls relating to reproduction of microorganisms and the effects on public health. This course does not meet microbiology requirement for pre-health students.

BIOL 110  Human Genetics  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Principles of human inheritance including gene transmission, genetic diseases, pedigree analysis, molecular genetics, immunogenetics, and population genetics; relationships to other fields of study will be emphasized.

BIOL 114  Ecosystem Biology (Lecture)  (3)
3 hours lecture
Note: See also BIOL 114L
Transfer acceptability: CSU; UC
Basic principles of general biology as they relate to exemplary ecosystems.

BIOL 114L  Ecosystem Biology (Laboratory)  (1, 1.5, 2)
3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 101 or 114, or concurrent enrollment in BIOL 101 or 114
Note: A fee is required, and additional costs may be incurred. Contact the Biology Department or see the schedule of classes for specific information about the laboratory field sites, dates and fees.
Transfer acceptability: CSU; UC
Laboratory and field experiences to illustrate and observe biology as it relates to exemplary ecosystems. Typical field sites include the Greater Yellowstone ecosystem, Central America, or the Sea of Cortez.

BIOL 118  General Ecology (Lecture)  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Basic concepts of evolution, population ecology, community ecology, and ecosystem ecology.

BIOL 118L  General Ecology (Laboratory)  (1)
3 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 118, or concurrent enrollment in BIOL 118
Transfer acceptability: CSU; UC
Provides hands-on experiences with ecological concepts, methods, and problem-solving techniques by using the plants and animals of local communities in their natural settings. The majority of laboratory sessions will be devoted to off-campus field studies.

BIOL 120  Animal Behavior  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Biological basis of behavior including behavior genetics, operation of evolutionary processes on species typical behaviors, behavioral ontogeny, functional organization of nervous systems, animal senses, motivation including hormonal effects on drive, and biorhythms; behavioral ecology including social behavior and social living, reproductive behaviors, homing and migration, antipredatory defenses, feeding strategies, and communication.

BIOL 125  General Botany  (4)
3 hours lecture - 3 hours laboratory
Note: Not open to students with prior credit in BIOL 126 or 126L.
Transfer acceptability: CSU; UC – BIOL 125 and 126/126L combined: maximum credit, 4 units
The diversity, structure, and function of major plant groups including cellular metabolism, soil water relationships, classification, genetics, life cycle patterns, growth, and the basic ecological and evolutionary concepts of botany. This is a general education course intended for non-science majors.

BIOL 126  General Botany Lecture  (3)
3 hours lecture
Note: Not open to students with prior credit in BIOL 125
Transfer acceptability: CSU; UC – BIOL 125 and 126/126L combined: maximum credit, 4 units
The diversity, structure, and function of major plant groups including cellular metabolism, soil water relationships, classification, genetics, life cycle patterns, growth, and the basic ecological and evolutionary concepts of botany.

BIOL 126L  General Botany Laboratory  (1)
3 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL126, or concurrent enrollment in BIOL 126
Note: Not open to students with prior credit in BIOL 125
Transfer acceptability: CSU; UC
A laboratory course in plant biology. Special emphasis on the structure, growth, function, genetics, and life cycles of major plant groups. This is a general education course intended for non-science majors.

BIOL 130  Marine Biology  (4)
3 hours lecture - 3 hours laboratory
Note: Not open to students with prior credit in BIOL 131 or 131L
Transfer acceptability: CSU; UC
An introduction to marine biology with an emphasis on the adaptations, classification, and ecology of marine organisms as well as current issues in marine biology. A survey of local marine organisms and habitats. Participation on field trips as scheduled is required.

BIOL 131  Marine Biology (Lecture)  (3)
3 hours lecture
Note: Not open to students with prior credit in BIOL 130
Transfer acceptability: CSU; UC
An introduction to marine biology with an emphasis on the adaptations, classification, and ecology of marine organisms as well as current issues in marine biology.
BIOL 131L Marine Biology (Laboratory)  (1) 3 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 131, or concurrent enrollment in BIOL 131
Note: Not open to students with prior credit in BIOL 130
Transfer acceptability: CSU; UC
A survey of local marine organisms and local marine habitats. A field trip-oriented course; participation on field trips as scheduled is required.

BIOL 135 Biology of Marine Mammals  (3) 3 hours lecture
Transfer acceptability: CSU; UC
The fundamentals of marine mammal biology are explored. Topics include comparative anatomy, evolution, cladistics, mammalian physiology, ecology and zoogeography, behavior and conservation as they apply to the study of marine mammals.

BIOL 140 General Zoology  (4) 3 hours lecture - 3 hours laboratory
Note: Not open to students with prior credit in BIOL 144
Transfer acceptability: CSU; UC - No credit if taken after BIOL 140
Structural and functional adaptations of major groups of the animal kingdom from protozoans through mammals. This is a general education course intended for non-science majors.

BIOL 141 General Zoology (Lecture)  (3) 3 hours lecture
Note: Not open to students with prior credit in BIOL 144
Transfer acceptability: CSU; UC - No credit if taken after BIOL 140
Principles of animal life and body organization. Structural and functional adaptations of major groups of the animal kingdom from protozoans through mammals. BIOL 141L laboratory optional.

BIOL 141L General Zoology (Laboratory)  (1) 3 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 141, or concurrent enrollment in BIOL 141
Note: Not open to students with prior credit in BIOL 144
Transfer acceptability: CSU; UC - No credit if taken after BIOL 140
Investigations upon living and preserved specimens representative of the major groups of the animal kingdom. This is a general education course intended for non-science majors.

BIOL 145 Introduction to Anatomy and Physiology  (3) 3 hours lecture
Note: Not open to students with prior credit in BIOL 210 or 211
Transfer acceptability: CSU; UC - No credit if taken after BIOL 210, or 211
Introduction to the structure and function of human body systems in health and disease. Not recommended for those intending to take BIOL 105, 106, 210, or 211.

BIOL 145L Introduction to Anatomy and Physiology Laboratory  (1) 3 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 145 or concurrent enrollment in BIOL 145
Transfer acceptability: CSU; UC - No credit if taken after BIOL 210, or 211
Introduction to the structure and function of human body systems. Includes study of cells, tissues, and human organ systems. Not recommended for those intending to take BIOL 105, 106, 210, or 211.

BIOL 185 Science of Human Nutrition  (3) 3 hours lecture
Recommended preparation: CHEM 110 and BIOL 210 or BIOL 211
Note: Cross listed as NUTR 185
Transfer acceptability: CSU; UC
Science of food, nutrients, and other substances. Processes by which humans ingest, digest, absorb, transport, utilize, and excrete foods and nutrients are explored. Emphasis on biological, chemical, and physiological implications to human nutrition and overall health. Current nutrition recommendations and controversies are analyzed from a scientific perspective.

BIOL 195A Field Studies in Natural History  (1, 1.5, 2, 2.5, 3) ½-1 hours lecture - 1½-7½ hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 100; or BIOL 101; or BIOL 130; or BIOL 131; or BIOL 140; or BIOL 141; or BIOL 114; or BIOL 125; or BIOL 126
Note: Fee charged
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Field studies of plant and animal species encountered in various habitats, including systematics and major structural and functional characteristics of the taxonomic groups to which these species belong, and emphasizing each species' particular adaptations that favor its survival in its natural habitat. See Class Schedule for locality to be visited.

BIOL 195B Field Studies in Ecology  (1, 1.5, 2, 2.5, 3) ½-1 hours lecture - 1½-7½ hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 100; or BIOL 101; or BIOL 130; or BIOL 131; or BIOL 140; or BIOL 141; or BIOL 114; or BIOL 125; or BIOL 126
Note: Fee charged
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Field study of the fauna and biota of selected geographic regions, with emphasis placed upon field identification, observation and interpretation of behavioral and ecological interrelationships of living things to their environment and to one another. See Class Schedule for locality to be visited.

BIOL 195C Field Study of Native Plants  (1, 1.5, 2, 2.5, 3) ½-1 hours lecture - 1½-7½ hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 100; or BIOL 101; or BIOL 130; or BIOL 131; or BIOL 140; or BIOL 141; or BIOL 114; or BIOL 125; or BIOL 126
Note: Fee charged
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Extended field study of the flora of selected geographical areas including habitats, adaptations, and identification of native and naturalized species. See Class Schedule for locality to be visited.

BIOL 195D Field Study of Birds  (1, 1.5, 2, 2.5, 3) ½-1 hours lecture - 1½-7½ hours laboratory
Prerequisite: BIOL 100; or BIOL 101; or BIOL 114; or BIOL 130; or BIOL 131; or BIOL 125; or BIOL 126; or BIOL 140; or BIOL 141
Note: Fee charged
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Extended field study of terrestrial and aquatic avifauna of selected habitats, emphasizing identification and observation of native and migratory birds, their behavior, and adaptations. See Class Schedule for locality to be visited.

BIOL 197 Biology Topics  (0.5 - 4) Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Topics in Biology. See Class Schedule for specific topic offered. Course title will designate subject covered.
**BIOL 200  Foundations of Biology I**  (5)
3 hours lecture - 6 hours laboratory
Prerequisite: A minimum grade of 'C' in CHEM 110 and CHEM 110L
Transfer acceptability: CSU; UC
C-ID BIOL 190

**BIOL 201  Foundations of Biology II**  (5)
3 hours lecture - 6 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 200
Transfer acceptability: CSU; UC
C-ID BIOL 140
An examination of the diversity of life, as seen in the Eubacteria, Archaea, and Eukarya, emphasizing the integration of structure and function, development, life histories, phylogenetics, animal behavior, and ecology. Recommended for biology majors.

**BIOL 210  Anatomy**  (4)
2 hours lecture - 7 hours laboratory
Recommended Preparation: BIOL 100; or BIOL 101 and BIOL 101L; or BIOL 102; or BIOL 105; or BIOL 200
Transfer acceptability: CSU; UC
C-ID BIOL 110B
Designed to provide a basic understanding of the structure of the human body. Laboratory includes a study of anatomy through cut and organ dissection, skeletal study, use of models and other visual aids.

**BIOL 211  Physiology**  (4)
2 hours lecture - 7 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 102; or BIOL 200 and CHEM 104 or CHEM 100; or BIOL 100 and CHEM 104 or CHEM 100; or BIOL 105 and CHEM 104 or CHEM 100; or BIOL 210
Transfer acceptability: CSU; UC
C-ID BIOL 120B
Principles of human physiology including laboratory exercises. Deals with physiology of muscle, nerve, circulation, respiration, excretion, digestion, the endocrines and exercise.

**BIOL 212  Fundamentals of Microbiology**  (4)
2 hours lecture - 7 hours laboratory
Prerequisite: A minimum grade of 'C' in BIOL 102; or BIOL 200 and CHEM 104 or CHEM 100; or BIOL 100 and CHEM 104 or CHEM 100; or BIOL 105 and CHEM 104 or CHEM 100; or BIOL 211
Transfer acceptability: CSU; UC
Fundamentals of microbiology including medical aspects of microbiology.

**BIOL 295  Directed Study in Life Science**  (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Independent study for students who have demonstrated skills and/or proficiencies in biology subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.
Advertising, Marketing, and Merchandising (AS, CA)

This program is designed to provide a general academic background of coursework pertinent to entry-level employment and/or upper division education in the field of product or service distribution.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 101</td>
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<tr>
<td>or</td>
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<td>3</td>
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<td>BUS 145/</td>
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<td>FASH 125</td>
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<td>BUS 150</td>
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<tr>
<td>BUS 155</td>
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Electives (Select 6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
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<td>BUS 125</td>
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<td>BUS 170</td>
<td>1</td>
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<tr>
<td>BUS 173</td>
<td>1</td>
</tr>
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<td>BUS 205</td>
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<tr>
<td>MATH 120</td>
<td>4</td>
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<tr>
<td>SPCH 100</td>
<td>3</td>
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</tbody>
</table>

TOTAL UNITS 27 - 28

Recommended Elective: BUS 171

Business Administration (AS-T)

The Associate in Science in Business Administration for Transfer degree provides students the basic functions of business including accounting, economics, business ethics, business related soft-ware applications, business communications and business statistical study. The degree prepares students for entry into an extraordinary number of academic studies such as: accounting, finance, marketing, business administration, advertising, merchandizing, banking, economics, entrepreneurial studies, health care management, hospitality management, international business, and public relations. It can also provide skills necessary for entry-level positions in the field of business.

To obtain the Associate in Science in Business Administration for Transfer, students must complete the following:

Maximum of 60 CSU-transferable units with a minimum grade point average (GPA) of 2.0 and a grade of “C” or better in all courses required for the major:

• a minimum of 18 semester units in the major as determined by the community college district, and:

one of the following general education patterns:

• the California State University General Education-Breadth (CSU GE-Breadth) pattern of 39 units; OR:

• the Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units

AS-T TRANSFER MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
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<td>ACCT 201</td>
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<tr>
<td>ACCT 202</td>
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<td>ECON 101</td>
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<td>ECON 102</td>
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<td>BUS 117</td>
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List A: Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 130</td>
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<tr>
<td>MATH 120</td>
<td>4</td>
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<tr>
<td>PSYC/SOC 205</td>
<td>4</td>
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</table>

List B: Select two of the following or any course from List A not already chosen:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS 104</td>
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</tr>
<tr>
<td>CSIT 105</td>
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<tr>
<td>CSIT 125</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>3</td>
</tr>
<tr>
<td>*BUS 205</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 27

*A course is required major preparation at CSU San Marcos (CSUSM). Students planning to transfer to CSUSM are advised to select these courses to complete this degree. For more information on this major at CSUSM, please refer to the articulation agreement at ASSIST.ORG.

Business-General (AS)

This program is primarily designed for students who are seeking an overview of business. The program provides skills necessary for entry-level positions in the field of business. If transferring to a four year institution use the Associate Degree for Transfer Business (AD-T Business Administration).

A.S. DEGREE MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
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<tr>
<td>or</td>
<td>4</td>
</tr>
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<td>BUS 117</td>
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<td>BUS 155</td>
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<td>*IBUS 105</td>
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<td>IBUS 100</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205</td>
<td>3</td>
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<tr>
<td>CSIT 105</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 120</td>
<td>3</td>
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</tbody>
</table>
Electives (Select 5-7 units)

ACCT 202 Managerial Accounting 4
BUS 150 Advertising 3
BUS 157 E-Commerce 3
BUS 166 Intermediate Keyboarding 2
BUS 173 Contemporary Job Search Techniques 1

TOTAL UNITS 35 - 38

* Not required if acceptable level skill has been completed in high school. Students excused from BUS 165 must substitute an elective.

Recommended Electives: BUS 170, 171; ECON 101; PSYCH 100

Business Information Worker (CA)

CERTIFICATE OF ACHIEVEMENT

The Business Information Worker Certificate of Achievement is a new certificate that is based directly on industry advisors’ recommendations for required job skills; it is designed to prepare students for entry-level office administrative support in a variety of fields or businesses. This certificate will upgrade existing job skills and will lead to preparation for immediate employment in entry-level positions in various fields as well as augment employer-required skills for any career/degree.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 104</td>
<td>Business Information Systems 3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CSIT 125</td>
<td>Customer Service 3</td>
</tr>
<tr>
<td>BUS 142</td>
<td>Beginning Keyboarding 3</td>
</tr>
<tr>
<td>BUS 165</td>
<td>Word for Business - Basic 1</td>
</tr>
<tr>
<td>BUS 170</td>
<td>Excel Basic 1</td>
</tr>
<tr>
<td>BUS 175</td>
<td>Beyond Outlook Essentials 1</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Business Communication 3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 12

E-Marketing (AS, CA)

This program combines business skills in marketing and advertising with technical skills in web design and digital media production. Students will gain a working knowledge of Web 2.0 techniques used in e-marketing such as digital media design, search engine optimization, social networking, and other methods of creating digital content for driving website traffic.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 150</td>
<td>Advertising 3</td>
</tr>
<tr>
<td>BUS 152</td>
<td>Social Media for Business 3</td>
</tr>
<tr>
<td>BUS 155</td>
<td>Marketing 3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>IBUS 105</td>
<td>International Marketing 3</td>
</tr>
<tr>
<td>BUS 157</td>
<td>E-Commerce 3</td>
</tr>
<tr>
<td>GCIP 140</td>
<td>Digital Imaging/Photoshop I 3</td>
</tr>
<tr>
<td>GCMW 177</td>
<td>Search Engine Optimization (SEO) for Web Design 3</td>
</tr>
<tr>
<td>GCMW 102</td>
<td>Web Page Layout I 3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>GCMW 105</td>
<td>Web Page Layout with CMS 3</td>
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</table>

Electives (Select 6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>BUS 100</td>
<td>Introduction to Business 3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Business English 3</td>
</tr>
<tr>
<td>BUS 145/</td>
<td></td>
</tr>
<tr>
<td>FASH 125</td>
<td>Retailing/Promotion 3</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Business Communication 3</td>
</tr>
<tr>
<td>GCIP 141</td>
<td>Digital Imaging/Photoshop II 3</td>
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<tr>
<td>GCMW 240</td>
<td>Digital Imaging/Photoshop III 3</td>
</tr>
<tr>
<td>GCMW 106</td>
<td>Multimedia for Social Networking 3</td>
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<tr>
<td>GCMW 120</td>
<td>Designing for the Social Web 3</td>
</tr>
<tr>
<td>GCMW 140</td>
<td>Web Graphics 3</td>
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</table>

TOTAL UNITS 27

Medical Office Specialist (AS, CA)

Provides specific front-office skills for an entry-level position in a medical-related facility.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>BUS 80</td>
<td>Medical Terminology and Anatomy 4</td>
</tr>
<tr>
<td>BUS 82</td>
<td>Medical Insurance Billing and Coding 3</td>
</tr>
<tr>
<td>BUS 84</td>
<td>Healthcare Writing Techniques 3</td>
</tr>
<tr>
<td>BUS 86</td>
<td>Electronic Health Record Applications 2</td>
</tr>
<tr>
<td>BUS 88</td>
<td>Medical Office Administration 3</td>
</tr>
<tr>
<td>BUS 166</td>
<td>Intermediate Keyboarding 2</td>
</tr>
<tr>
<td>CE 150</td>
<td>Cooperative Education Internship 2 - 3</td>
</tr>
</tbody>
</table>

Demonstrate the ability to type 45 net words per minute for five minutes with 5 errors or less

TOTAL UNITS 18 - 19

Retail Management (CA)

A comprehensive program designed to prepare current and future retail employees for the fast paced challenges in a competitive retail environment. This certificate has been endorsed by the Western Association of Food Chains and its member companies.

CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 201</td>
<td>Financial Accounting 4</td>
</tr>
<tr>
<td>BMGT 101</td>
<td>Introduction to Management 3</td>
</tr>
<tr>
<td>BMGT 110</td>
<td>Human Resource Management 3</td>
</tr>
<tr>
<td>BMGT 130</td>
<td>Management/Leadership Issues 3</td>
</tr>
<tr>
<td>CSIT 105</td>
<td>Computer Concepts and Applications 3</td>
</tr>
<tr>
<td>BUS 145/ FASH 125</td>
<td>Retailing/Promotion 3</td>
</tr>
<tr>
<td>BUS 155</td>
<td>Marketing 3</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Business Communication 3</td>
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</tbody>
</table>

TOTAL UNITS 25

Social Media (CA)

CERTIFICATE OF ACHIEVEMENT

The Social Media Certificate of Achievement provides a comprehensive overview of the theory and practice of social media. Students who complete the requirements will be able to demonstrate how to create and share digital content in order to establish and grow a social media presence online. Potential careers students may enter upon completion include social media strategy, public relations, and/or online journalism. There are no prerequisite or enrollment limitations.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS 150</td>
<td>Advertising 3</td>
</tr>
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<td>or</td>
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<tr>
<td>COMM 104</td>
<td>Introduction to Public Relations 3</td>
</tr>
<tr>
<td>BUS 152</td>
<td>Social Media for Business 3</td>
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<tr>
<td>BUS 173</td>
<td>Contemporary Job Search Techniques 1</td>
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<tr>
<td>GCMW 115</td>
<td>Web Page Layout/WordPress 2</td>
</tr>
<tr>
<td>GCMW 120</td>
<td>Designing for the Social Web 3</td>
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<tr>
<td>JOUR 130</td>
<td>Writing for Online Journalism 3</td>
</tr>
<tr>
<td>JOUR 200</td>
<td>Mastering Social Media 3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 18
COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

BUS 80  Medical Terminology and Anatomy  (4)
(Formerly OIS 80)
4 hours lecture
Basic medical terms with emphasis on word analysis and construction. Overview of anatomy and the pathological, diagnostic, therapeutic, and surgical terms related to the body as a whole and the integumentary, digestive, urinary, musculoskeletal, and male reproductive systems.

BUS 82  Medical Insurance Billing and Coding  (3)
(Formerly OIS 82)
3 hours lecture
Recommended preparation: BUS 80
Provides entry level skills in medical insurance, billing, diagnostic and medical procedural coding with CPT-4 and ICD-9 guidelines. Includes compiling and abstracting information from the medical record utilizing computer coding techniques and promoting accurate reimbursement of medical claims. Prepares and utilizes health care claim forms.

BUS 84  Healthcare Writing Techniques  (2)
2 hours lecture
Prerequisite: A minimum grade of "C" in BUS 80
Application of writing skills to common writing situations found in various medical settings following HIPAA rules and standards. Includes the writing of medical letters, memos, and emails; medical records including charting and documenting; a variety of medical reports; meeting minutes; research and manuscripts.

BUS 86  Electronic Health Record Applications  (2)
(Formerly OIS 86)
2 hours lecture
Recommended preparation: BUS 80
Application of technology in the health care industry. Includes overview of EHR software; privacy, confidentiality, and security of the EHR; transitioning from paper charts to the EHR; administrative use of the EHR; using the EHR for reimbursement; the EHR role in health promotion and patient education; and, the personal health record and patient advocacy.

BUS 88  Medical Office Administration  (3)
(Formerly OIS 88)
3 hours lecture
Recommended preparation: BUS 80
Designed to prepare students for employment as a medical administrative assistant. Topics include the career of a medical administrative assistant; the health care team; medical law and ethics; patient diversity, communications, appointment scheduling, and reception/registration; patient services of HIM, HIPAA, medical billing, health insurance and benefits (CMS-1500, Tricare, CHAMPVA, COBRA); directing the activities of the medical office (business operations, financial management, and human resource management); and, job search essentials.

BUS 100  Introduction to Business  (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID BUS 110
Preparation for survival within the global economy. Topics such as small business management, managerial theory, international business, and marketing represent several important class components. Includes strong career guidance component.

BUS 104  Business Information Systems  (3)
3 hours lecture
Transfer acceptability: CSU
C-ID BUS 140
Examination of information systems and their role in business. Focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Application of these concepts and methods through hands-on projects developing computer-based solutions to business problems.

BUS 110  Business Mathematics  (3)
3 hours lecture
Transfer acceptability: CSU
Theory and practical application to business situations of computing trade and cash discounts, commissions, payrolls, property taxes, interest, bank discount, compound interest, present value, annuities, sinking funds, insurance, consumer credit, and depreciation.

BUS 115  Business Law  (3)
3 hours lecture
Transfer acceptability: CSU; UC – BUS 115, 116, 117, LS 121 combined: maximum credit, one course
Law in its relationships to business contracts, agency, bailment, and sales.

BUS 117  Legal Environment of Business  (3)
3 hours lecture
Transfer acceptability: CSU; UC – BUS 115, 116, 117, LS 121 combined: maximum credit, one course
C-ID BUS 120
Business legal systems, sources of law, social and ethical influences, judicial and administrative systems, contracts, torts, bankruptcy, agency, business organizations, securities regulatory, regulation of property, and protection of intellectual property interests.

BUS 125  Business English  (3)
3 hours lecture
Transfer acceptability: CSU
Practical approaches to solving the commonly made errors in English language usage, as specifically applied to business-oriented material. Coverage includes vocabulary, spelling, grammar, idioms, sentence structure, and punctuation.

BUS 129  Principles of Logistics  (3)
3 hours lecture
Transfer acceptability: CSU
Explore how supply chain management impacts all of the areas and processes of the firm and its supply chain trading partners. Focus on how managers can improve their firm's competitive position by employing the practice in the various areas of supply chain and to satisfy its customers.

BUS 130  Principles of Supply Chain Management  (3)
3 hours lecture
Transfer acceptability: CSU
Basic principles in purchasing and supply chain management, relationship management, application of processes, inventory management, source selection, obtaining and evaluating offers, buying techniques, contract writing and legal aspects.

BUS 136  Money Management and Planning for the Future  (3)
3 hours lecture
Note: Cross listed as FCS 136
Transfer acceptability: CSU
An integrated approach to personal finance that focuses on practical financial decision-making, as well as the physiological, psychological and sociological contexts in which those decisions are made. Topics include money management, taxes, financial services, consumer credit, consumer purchasing strategies, housing, property and automobile insurance, health and disability insurance, life insurance, investment analysis and retirement and estate planning.
BUS 138  Business Ethics (2)
2 hours lecture
Transfer acceptability: CSU
This course provides a systems approach for making business decisions that are responsible, practical, and defenable. It examines the gray zone of ethical quandaries and provides a methodical process for selecting alternative solutions that are ethical and good for business.

BUS 140  Selling for Business (3)
3 hours lecture
Transfer acceptability: CSU
A study of the working principles of selling in a business environment including prospecting for customers, understanding buying behavior, developing a sales presentation, closing the sale while delivering the best customer service, and maintaining professional relationships.

BUS 142  Customer Service (1)
1 hour lecture
Transfer acceptability: CSU
A study of the working principles of selling in a business environment including prospecting for customers, understanding buying behavior, developing a sales presentation, closing the sale while delivering the best customer service, and maintaining professional relationships.

BUS 145  Retailing/Promotion (3)
3 hours lecture
Note: Cross listed as FASH 125
Transfer acceptability: CSU
Principles and techniques of retailing, promotion, and advertising pertinent to retail policies and procedures. Includes psychological aspect of retailing. Working foundation for those looking forward to employment in this area.

BUS 150  Advertising (3)
3 hours lecture
Transfer acceptability: CSU
A study of advertising media and methods as sales promotional tools in marketing activities including, but not limited to, such areas as the production and evaluation of advertisements and advertising media.

BUS 152  Social Media for Business (3)
3 hours lecture
Transfer acceptability: CSU
Explores social media use from a business perspective. Students learn how to develop a social media strategy to promote business, build strong customer relationships, and coordinate a common message across multiple channels. Strategic and tactical review of the major social networking platforms will be reviewed in order to drive business goals and create a personal brand online.

BUS 155  Marketing (3)
3 hours lecture
Transfer acceptability: CSU
A study of the role and functions of marketing in the wholesale and retail distribution of industrial and consumer goods and services, to familiarize students with marketing policies and practices, integration of marketing activities, and pertinent government regulations.

BUS 157  E-Commerce (3)
3 hours lecture
Recommended preparation: BUS 190
Transfer acceptability: CSU
Addresses the methods by which a business can harness the powers of the Web to sell its product. Examines planning an e-business, web site creation and hosting, e-commerce stores, electronic payment issues and security, marketing an e-business, copyright, and privacy policy issues.

BUS 165  Beginning Keyboarding (2)
1 hour lecture - 3 hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU
Introduction to basic business document formatting. Touch-typing of alphabetic, numeric, and symbol keys on a computer keyboard. Includes development of speed and accuracy on straight copy.

BUS 166  Intermediate Keyboarding (2)
1 hour lecture - 3 hours laboratory
Recommended preparation: BUS 165, or a keyboarding speed of 30 net words per minute
Transfer acceptability: CSU
Continued development of higher speed and accuracy timed writing goals from BUS 165. Emphasis is placed on production of a variety of more complicated multipage business documents and forms.

BUS 170  Word for Business – Basic (1)
½ hour lecture - ½ hours laboratory
Recommended preparation: A keyboarding speed of 20 net words a minute
Note: May be open entry/open exit
Transfer acceptability: CSU
Hands on application with Microsoft Word. Students will create, save, close, open, edit, and print a variety of business documents utilizing the following software features: finding and replacing text, moving and copying text; spell, thesaurus, grammar, and auto text; character, paragraph, page, and document formatting; envelopes; tables; columns; borders and special characters; footnotes and endnotes; draw objects and graphics; hyperlinks; styles and templates; outlines; smart tags; and headers/footers. Class Schedule will designate software package covered.

BUS 171  Word for Business – Advanced (1)
½ hour lecture - ½ hours laboratory
Recommended preparation: BUS 170
Note: May be open entry/open exit
Transfer acceptability: CSU
Refinement of basic word processing skills and practice of the more sophisticated software features of merge; labels; fields; index and table of contents; macros; master and subdocuments; customizing Word; on-screen forms; charts; bookmarks and cross-referencing; creating and editing Word web pages; comparing and merging documents; linking and embedding objects; and tracking changes. In addition, more advanced printing, file management, and integration of related software will be covered. The Class Schedule will designate software version covered.

BUS 173  Contemporary Job Search Techniques (1)
½ hour lecture - ½ hours laboratory
Transfer acceptability: CSU
Use the Internet, current software, and research tools to organize and implement a job search. Includes: on-line resources; preparation and posting of application materials, including digital resume and digital cover letters; interview strategies and mock interviews; industry speakers, and hard copy and online portfolios.

BUS 175  Excel Basic (1)
½ hour lecture - ½ hours laboratory
Recommended preparation: BUS 110
Note: May be open entry/open exit
Transfer acceptability: CSU
Introduction to a currently used computer spreadsheet application program. Concepts include defining, designing and navigating spreadsheets; creating, editing, formatting, and printing spreadsheets; working with formulas and functions; and working with charts and graphics. A variety of spreadsheets will be created and edited within practical applications designed for the business environment. Class Schedule will designate software package covered.
BUS 176  Excel Intermediate
½ hour lecture - 1½ hours laboratory
Recommended preparation: BUS 175 or Equivalent
Note: May be open entry/open exit
Transfer acceptability: CSU
Development of intermediate spreadsheet skills to manipulate worksheet content using a current computer spreadsheet application program. Intermediate concepts include working with lists, filtering, conditional formatting, pivot tables/charts, worksheet groups, workbook templates, lookup functions, auditing tools, document sharing features, macro basics, and publishing to a web page. Concepts are introduced using practical applications designed for the business environment. Class schedule will designate software package covered.

BUS 177  Excel Advanced
½ hour lecture - 1½ hours laboratory
Recommended preparation: A minimum grade of 'C' in BUS 176 or Equivalent
Note: May be open entry/open exit
Transfer acceptability: CSU
Development of advanced skills using a current computer spreadsheet application program. Advanced concepts and skills include performing complex analyses using data tables, arrays, scenarios, goal seek and problem-solving tools, and application add-ins; importing data from external sources including text, database, schema, XML, and web files and real-time sources; defining queries; and, writing and executing macros and sub-routines. Concepts and software features are introduced applying practical applications designed for the business environment. Class schedule will designate software package covered.

BUS 180  Access Basic
½ hour lecture - 1½ hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU
Introduction to a currently used computer database program. Skills include planning, designing, and using a database; tables; forms and sub forms; reports; queries; and relationships within practical applications designed for the business environment. Class Schedule will designate software package covered.

BUS 181  Access Intermediate
½ hour lecture - 1½ hours laboratory
Prerequisite: A minimum grade of 'C' in BUS 180
Transfer acceptability: CSU
Study and application of Microsoft Office Access including creating advanced queries and enhancing table design; creating custom forms; creating custom reports; and, importing, exporting, linking and analyzing data.

BUS 182  Access Advanced
½ hour lecture - 1½ hours laboratory
Prerequisite: A minimum grade of 'C' in BUS 181
Transfer acceptability: CSU
Advanced application of Microsoft® Office Access including applying action queries and advanced table relationships; creating macros; and managing and securing databases at the user level.

BUS 185  PowerPoint for Business
½ hour lecture - 1½ hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU
Introduction to a currently used computer presentations program to produce effective presentations using overheads, 35mm photographic slides, or on-screen slides. Skills include defining and designing presentations; preparing slides using the slide, slide sorter, outline, notes page, and slide show views; formatting and animating the presentation; and applying templates within practical applications applied to the business environment. Class Schedule will designate software package covered.

BUS 187  Project for Business
½ hour lecture - 1½ hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU
Hands-on application with Microsoft Project, a comprehensive software package that includes the processes of initiating, planning, executing, controlling, and closing a project to meet project goals. Students will identify ways of completing projects more efficiently and effectively by covering the topics of planning a project; creating a project schedule; communicating project information; assigning resources and costs to a project; tracking the progress of and closing a project; and, sharing project information with other people and applications.

BUS 189  Beyond Outlook Essentials
½ hour lecture - 1½ hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU
Comprehensive study of Outlook, an information management and communication program. In-depth study of Outlook used in intra- and internet environments, for organizational and communication purposes. Outlook terminology and concepts, and applications and projects for organizational intranets and the World Wide Web.

BUS 190  Internet for Business
½ hour lecture - 1½ hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU
Basic concepts of navigating the Internet and Intranet including terminology; browsing and searching the web with emphasis on evaluating the credibility of search results; dedicated e-mail systems and web-based email services; social media; portals and accessing a variety of online resources; overview of internet technologies and security issues; and, practical applications designed for the business environment. In addition, the basics of e-Commerce are covered.

BUS 197  Business Topics
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Business. See Class Schedule for specific topic offered. Course title will designate subject covered.

BUS 204  Quantitative Business Analysis
4 hours lecture
Prerequisite: MATH 56 or MATH 60 or eligibility determined through the math placement process.
Recommended Preparation: BUS 175 or equivalent
Transfer acceptability: CSU/UC pending
The applied science of basing business decisions on numerical data that can be used to reduce risk in customer, product, investment, and other significant operational and strategic business decisions. Descriptive statistics (tabular, numerical, and graphical) and inferential statistics (random sampling, sampling distributions, probability distributions, hypothesis testing, linear regression, t-tests) are used within the context of business decisions. Makes extensive use of technology, including spreadsheets and other software tools, for analyzing data. Designed for students majoring in business or economics.

BUS 205  Business Communication
3 hours lecture
Prerequisite: A minimum grade of 'C' in English 100
Transfer acceptability: CSU
C-ID BUS 115
This course applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports. This course is designed for students who already have college-level writing skills.
Business International
See International Business

Business Management (BMGT)
Contact the Business Administration Department for further information. 760-744-1150, ext. 2488
Office: MD-341
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Business Management (AS, CA)
This program includes a selection of courses that provides academic preparation to individuals who are seeking employment, or are currently employed, within the management structure of business.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>ACCT 201 Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 104 Accounting Spreadsheet Concepts</td>
<td>2</td>
</tr>
<tr>
<td>BMGT 101 Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 115 Organizational Theory and design</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 130 Management/Leadership Issues</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110 Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 115 Business Law</td>
<td>or</td>
</tr>
<tr>
<td>BUS 117 Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 138 Business Ethics</td>
<td>2</td>
</tr>
<tr>
<td>BUS 155 Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205 Business Communication</td>
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Elective Courses (Select 3-4 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 202</td>
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<tr>
<td>BMGT 105 Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 110 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 125 Directed Study in Business Relations</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 295</td>
<td>1 - 3</td>
</tr>
<tr>
<td>BUS 130 Principles of Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 140 Selling for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 145/</td>
<td></td>
</tr>
<tr>
<td>FASH 125 Retailing/Promotion</td>
<td>3</td>
</tr>
<tr>
<td>BUS 157 E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>BUS 170 Word for Business – Basic</td>
<td>1</td>
</tr>
<tr>
<td>BUS 180 Access Basic</td>
<td>1</td>
</tr>
<tr>
<td>BUS 185 PowerPoint for Business</td>
<td>1</td>
</tr>
<tr>
<td>ECON 100 Basic Economics</td>
<td>1</td>
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</table>

TOTAL UNITS: 32 – 33

Creating Your Business in a Gig Economy

CERTIFICATE OF PROFICIENCY
This unique three course certificate combines a comprehensive course in small business entrepreneurship to launch a business; a course in social media to advertise and market the business; and a cooperative education course where the student will be mentored on the creation of a new business or improvement of an existing business, via a business coach.

Program Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMGT 153 Small Business Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BUS 152 Social Media for Business</td>
<td>3</td>
</tr>
<tr>
<td>CE 100 Cooperative Education</td>
<td>1 - 4</td>
</tr>
</tbody>
</table>

TOTAL UNITS: 7 – 10

COURSE OFFERINGS

BMGT 101 Introduction to Management
3 hours lecture
Transfer acceptability: CSU
A leadership course designed to enhance understanding of responsibilities associated with management in business. Topics will cover management styles and human behavior factors associated with managing staff.

BMGT 105 Small Business Management
3 hours lecture
Transfer acceptability: CSU
For owners and managers of small businesses. Analysis of personal qualifications, forms of ownership, sources of information, financing, planning, legal problems, record keeping, advertising, insurance, sales promotions, credit, public relations, and current aids to successful management.

BMGT 110 Human Resource Management
3 hours lecture
Transfer acceptability: CSU
A survey of the history and present status of human resource management in the United States. Emphasis on modern techniques of recruitment, placement, wage administration, communications, training, labor relations, and employer employee relationships in modern industry and business.

BMGT 115 Organizational Theory and Design
3 hours lecture
Transfer acceptability: CSU
Policies and methods of organization in business enterprises of various sizes. Functional components of business organization: planning, controlling, coordinating, and directing to meet organizational objectives. Establishing lines of authority and functions of departments or units with emphasis on systems management.

BMGT 125 Introduction to Labor Relations
3 hours lecture
Transfer acceptability: CSU
Introduction to, and development of, an appreciation for labor relations: review of procedures involved in negotiation and administration of labor agreements; development of an understanding of the involvement of labor and management in a collective bargaining agreement; and an overview of the general nature of the labor management relationship and labor law as they currently exist in the United States.

BMGT 130 Management/Leadership Issues
3 hours lecture
Transfer acceptability: CSU
Examination of current issues in management and leadership including: organizing, staffing, decision making, motivating, communicating, and applying such skills to a business organization. Concepts related to group dynamics, change, conflict, organizational communications, and productivity are explored.

BMGT 179 Business Management Topics (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Business Management. See Class Schedule for specific topic offered. Course title will designate subject covered.

BMGT 295 Directed Study in Business Management
3, 6 or 9 hours laboratory
Prerequisite: Approval of project or research by the instructor and Department Chair
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and or proficiencies in business management subjects and have the initiative to work independently on projects outside the context of regularly scheduled classes. Students will work under the supervision of an instructor.
Cabinet and Furniture Technology (CFT)

Contact the Trade and Industry Department for further information.
760-744-1150, ext. 2545
Office: T-102A
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
For transfer information, consult a Palomar College Counselor.

PROGRAMS OF STUDY

Cabinetmaking and Millwork (AS, CA)

This program will prepare students to make a living at cabinetmaking. It provides the student with the theory and skills needed for employment and/or self employment in the field of cabinetmaking and millwork. Program begins with the basic safe use of tools and machines and basic woodworking processes. Specific and practical skills and knowledge of the cabinetmaking and millwork industries are covered with required and elected coursework.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFT 100</td>
<td>Fundamentals of Woodworking</td>
<td>4</td>
</tr>
<tr>
<td>CFT 105</td>
<td>Machine Woodworking/Furniture</td>
<td>4</td>
</tr>
<tr>
<td>CFT 108</td>
<td>Business Woodworking</td>
<td>2</td>
</tr>
<tr>
<td>CFT 165A</td>
<td>Cabinetry Design/Face Frame</td>
<td>4</td>
</tr>
<tr>
<td>CFT 167A</td>
<td>Cabinetry Production/Face Frame</td>
<td>4</td>
</tr>
<tr>
<td>CFT 165B</td>
<td>Cabinetry Design/European</td>
<td>4</td>
</tr>
<tr>
<td>CFT 167B</td>
<td>Cabinetry Production/European</td>
<td>4</td>
</tr>
<tr>
<td>CFT 168</td>
<td>Cabinetmaking/Architectural Millwork</td>
<td>2</td>
</tr>
<tr>
<td>CFT 185</td>
<td>Machine Tool Set-Up and Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>CFT 195</td>
<td>Finishing Technology/Touch-Up and Repair</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives (Select one course)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CFT 163</td>
<td>Plastic Laminate Fabrication Techniques</td>
<td>1</td>
</tr>
<tr>
<td>CFT 169</td>
<td>Cabinetmaking/Computer Cabinet Layout</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL UNITS: 27-28

Case Furniture Construction/Manufacturing (AS, CA)

This program will prepare students to make a living manufacturing case furniture. The emphasis will be on utilizing construction processes and building skills to fabricate solid wood furniture with doors and drawers. By studying historic period furniture pieces students will apply traditional methods of construction to modern and contemporary designs while also developing production methods to increase efficiency and profit. Students will learn to work with clients to design and construct either period furniture pieces or custom contemporary pieces.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
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<td>Machine Woodworking/Furniture</td>
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<tr>
<td>CFT 108</td>
<td>Business Woodworking</td>
<td>2</td>
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<tr>
<td>CFT 110A</td>
<td>Period Case Furniture Design</td>
<td>4</td>
</tr>
<tr>
<td>CFT 111A</td>
<td>Period Case Furniture Production</td>
<td>4</td>
</tr>
<tr>
<td>CFT 110B</td>
<td>Contemporary Case Furniture Design</td>
<td>4</td>
</tr>
<tr>
<td>CFT 111B</td>
<td>Contemporary Case Furniture Production</td>
<td>4</td>
</tr>
<tr>
<td>CFT 118</td>
<td>Furniture Design Development</td>
<td>2</td>
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<tr>
<td>CFT 153</td>
<td>Studio Furniture Design I</td>
<td>2</td>
</tr>
<tr>
<td>CFT 195</td>
<td>Finishing Technology/Touch-Up and Repair</td>
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Electives (Select 2 units)

<table>
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<th>Units</th>
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<tbody>
<tr>
<td>CFT 142</td>
<td>The Art and Craft of Planemaking</td>
<td>2</td>
</tr>
<tr>
<td>CFT 143</td>
<td>Decorative Box Making</td>
<td>2</td>
</tr>
<tr>
<td>CFT 148</td>
<td>Marquetry, Inlay and Veneering</td>
<td>2</td>
</tr>
<tr>
<td>CFT 169</td>
<td>Cabinetmaking/Computer Cabinet Layout</td>
<td>2</td>
</tr>
<tr>
<td>CFT 170</td>
<td>Workbench Design and Production</td>
<td>2</td>
</tr>
<tr>
<td>CFT 175</td>
<td>Jigs Fixtures and Routers</td>
<td>2</td>
</tr>
<tr>
<td>CFT 185</td>
<td>Machine Tool Set-Up and Maintenance</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL UNITS: 24

Carving Technology (AS, CA)

Carving Technology prepares students to make a living at woodcarving. Students explore use of tools and techniques used in carving wood as it applies to furniture and architectural millwork. Students will begin by gaining skill in simple layouts and learn to sharpen and maintain tools. As student progresses, both low and high relief carving as well as incised lettering will be mastered. Period furniture and architectural carvings are eventually mastered. Students will be qualified carvers in furniture shop or prepared to start own business.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
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<tbody>
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</tr>
<tr>
<td>CFT 108</td>
<td>Business Woodworking</td>
<td>2</td>
</tr>
<tr>
<td>CFT 118</td>
<td>Furniture Design Development</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>CFT 153</td>
<td>Studio Furniture Design I</td>
</tr>
<tr>
<td>CFT 149</td>
<td>Hand Joinery I</td>
<td>2</td>
</tr>
<tr>
<td>CFT 187</td>
<td>Introduction to Carving</td>
<td>2</td>
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<tr>
<td>CFT 188</td>
<td>Intermediate Carving</td>
<td>2</td>
</tr>
<tr>
<td>CFT 189</td>
<td>Advanced Carving</td>
<td>2</td>
</tr>
<tr>
<td>CFT 195</td>
<td>Finishing Technology/Touch-Up and Repair</td>
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</tr>
</tbody>
</table>

TOTAL UNITS: 27-28
Guitar Making Technology (AS, CA)

Guitar Making Technology will prepare students to make a living or begin a career as a maker of guitars or as a guitar repair technician. Students will begin by gaining competency in basic woodworking processes including hand tool and power machine usage, finishing, and safety. During the course work students will construct up to four instruments including a ukulele, an electric guitar, a steel string guitar and an arch top guitar. Business building is thoroughly covered. This is a demanding and highly technical program. Students are expected to be dedicated, determined and committed.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
CFT 100 Fundamentals of Woodworking 4
CFT 108 Business Woodworking 2
CFT 118 Furniture Design Development 2
or
CFT 153 Studio Furniture Design I 2
CFT 149 Hand Joinery I 2
CFT 155 Classic American Chair Designs II 2
CFT 159A Chair and Tables/Prototype Construction I 2
CFT 159B Chair and Tables/Prototype Construction II 2
CFT 160A Chairs and Tables/Production Manufacturing I 2
CFT 160B Chairs and Tables/Production Manufacturing II 2
CFT 195 Finishing Technology/Touch-Up and Repair 2

Electives (Select 2 units)
CFT 132B Ukulele Making II 4
CFT 133B Guitar Technician II/Major Repair 2
CFT 134B Electric Guitar Construction II/Custom 4
CFT 137 Arch Top Guitar Construction I 4
CFT 138 Arch Top Guitar Construction II 4

TOTAL UNITS 28

Lathe Turning Technology (AS, CA)

This program prepares students to make a living as a wood turner. All aspects of turning will be explored such as making tools and household objects, period and studio furniture applications, architectural applications, vessels and hollow forms. Basic and advanced tool use, application and sharpening will be included. Students will be able design and fabricate turned period furniture parts, contemporary furniture parts, and custom furniture parts. Students will be able to design and fabricate functional items such as tool handles, platters vessels, bowls, as well as similar studio art pieces. Students will also be able to design a line of turned pieces and be able to market pieces in shows, on line and in galleries.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
CFT 100 Fundamentals of Woodworking 4
CFT 108 Business Woodworking 2
CFT 118 Furniture Design Development 2
or
CFT 153 Studio Furniture Design I 2
CFT 149 Hand Joinery I 2
CFT 155 Classic American Chair Designs II 2
CFT 159A Chair and Tables/Prototype Construction I 2
CFT 159B Chair and Tables/Prototype Construction II 2
CFT 160A Chairs and Tables/Production Manufacturing I 2
CFT 160B Chairs and Tables/Production Manufacturing II 2
CFT 195 Finishing Technology/Touch-Up and Repair 2

Electives (Select 2 units)
CFT 132B Ukulele Making II 4
CFT 133B Guitar Technician II/Major Repair 2
CFT 134B Electric Guitar Construction II/Custom 4
CFT 137 Arch Top Guitar Construction I 4
CFT 138 Arch Top Guitar Construction II 4

TOTAL UNITS 24

Table and Chair Manufacturing (AS, CA)

Table and chair furniture is unique in that it is highly interactive with people who use them. Design and joinery must consider comfort, esthetics and structure. This program will prepare students to make a living manufacturing table and chair furniture. The study of historic period pieces will enable students to apply traditional methods of construction to modern and contemporary designs. The finest furniture in the world is handmade and yet production methods can/will be applied to increase efficiency and profit.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
CFT 100 Fundamentals of Woodworking 4
CFT 108 Business Woodworking 2
CFT 118 Furniture Design Development 2
or
CFT 153 Studio Furniture Design I 2
CFT 149 Hand Joinery I 2
CFT 155 Classic American Chair Designs II 2
CFT 159A Chair and Tables/Prototype Construction I 2
CFT 159B Chair and Tables/Prototype Construction II 2
CFT 160A Chairs and Tables/Production Manufacturing I 2
CFT 160B Chairs and Tables/Production Manufacturing II 2
CFT 195 Finishing Technology/Touch-Up and Repair 2

Electives (Select 2 units)
CFT 142 The Art and Craft of Planemaking 4
CFT 156 Advanced Classic American Chair Designs 2
CFT 170 Workbench Design and Production 2
CFT 180 Wood Bending and Lamination/Wood Technology 2
CFT 185 Machine Tool Set-Up and Maintenance 2
CFT 198 Advanced Wood Finishing 2

TOTAL UNITS 24

Veneering Technology (AS, CA)

The world’s most beautiful woods are processed into veneers. Veneered furniture has a rich history in both period and contemporary furniture. This program will prepare students to make a living manufacturing veneered furniture. The study of historic period pieces will enable students to apply traditional methods of construction to modern and contemporary designs. Students will be able to design and fabricate period furniture as well as contemporary furniture pieces which use veneer as the primary visual wood or utilize veneer in the visual design elements of the piece. Students will be able to work with a client to design and fabricate commissioned veneered furniture pieces. Students will also be able to design a line of furniture, which can be fabricated, utilizing a combination of production methods of hand craftsmanship. The finest furniture in the world is handmade and yet production methods can/will be applied to increase efficiency and profit.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
CFT 100 Fundamentals of Woodworking 4
CFT 105 Machine Woodworking/Furniture 4
CFT 108 Business Woodworking 2
CFT 118 Furniture Design Development 2
or
CFT 153 Studio Furniture Design I 2
CFT 148 Marquetry, Inlay and Veneering 2
CFT 151 Veneering Technology I 2
CFT 152 Veneering Technology II 2
CFT 195 Finishing Technology/Touch-Up and Repair 2

TOTAL UNITS 18
Electives (Select 2 units)
CFT 110A Period Case Furniture Design        4
CFT 111A Period Case Furniture Production   4
CFT 142 The Art and Craft of Planemaking     2
CFT 143 Decorative Box Making                2
CFT 144 Production Wood Products I           1
CFT 145 Production Wood Products II          1
CFT 180 Wood Bending and Lamination/Wood Technology 2

TOTAL UNITS  22

Woodworking Fundamentals (CA)
This program provides the foundational skills needed to enter the workplace and/or pursue an advanced degree in Cabinet and Furniture Technology. Students will have the technical knowledge and skills needed to select the appropriate raw materials required to design and fabricate wooden components; to set up, operate and maintain industrial woodworking machinery; and to complete assigned woodworking projects.

CERTIFICATE OF ACHIEVEMENT
Program Requirements
CFT 100 Fundamentals of Woodworking            4
CFT 105 Machine Woodworking/Furniture           4
CFT 149 Hand Joinery I                         2
CFT 195 Finishing Technology/Touch-Up and Repair 2

TOTAL UNITS  12

Woodworking Skills Technology (AS, CA)
The finest furniture in the world is hand made. Skilled craftsmen are rare and valuable. There is always a market for quality. This program will prepare students to make a living at woodworking with an emphasis on hand skills, traditional methods and European craftsmanship. Students will gain competence in the use of hand tools, power tools, and power machines and be able to properly select and safely use/operate them. Students will be able efficiently sharpen all of hand tools used. Students will gain basic proficiency in the following processes/techniques/skills: lathe turning, carving, wood bending, veneering, hand joinery and finishing. Students will also be able to write a business plan and gain an understanding of the operations of running a small business.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT
Program Requirements
CFT 100 Fundamentals of Woodworking           4
CFT 108 Business Woodworking                  2
CFT 118 Furniture Design Development          2
or
CFT 153 Studio Furniture Design I             2
CFT 149 Hand Joinery I                        2
CFT 151 Veneering Technology I                2
CFT 176 The Lathe - An Introduction to Woodturning 2
CFT 180 Wood Bending and Lamination/Wood Technology 2
CFT 187 Introduction to Carving               2
CFT 195 Finishing Technology/Touch-Up and Repair 2

Electives (Select 2 units)
CFT 142 The Art and Craft of Planemaking       2
CFT 143 Decorative Box Making                  2
CFT 144 Production Wood Products I             1
CFT 145 Production Wood Products II            1
CFT 155 Classic American Chair Designs         2
CFT 156 Advanced Classic American Chair Designs 2
CFT 175 Jigs/Fixtures and Routers              2

TOTAL UNITS  22

COURSE OFFERINGS
Courses numbered under 100 are not intended for transfer credit.

CFT 97 Cabinet and Furniture Technology Topics  (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule. Topics in Cabinet and Furniture Technology. See Class Schedule for specific topic covered. Course title will designate subject covered.

CFT 100 Fundamentals of Woodworking          (3, 4)
1½ or 2 hours lecture - 4½, or 6 hours laboratory
Transfer acceptability: CSU
An introductory course in design and construction of wood products. Survey, use, care and selection of woodworking machines and hand tools. Explanation of the basic techniques of milling, joinery, assembly, and finishing.

CFT 105 Machine Woodworking/Furniture         (3, 4)
1½ or 2 hours lecture - 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 100
Transfer acceptability: CSU
Study, design, and development of practical applications for basic cabinet construction as utilized by the wood products industry. Includes partitions, face frame, carcasse, and basic door and drawer construction. Operation of woodworking machines, tools and processes, techniques, and care and suitability of tools and machines.

CFT 108 Business Woodworking                  (2, 3, 4)
2, 3, or 4 hours lecture
Transfer acceptability: CSU
Prepare woodworkers to start and run a business. Topics include developing a business plan, strategies for shop efficiency, and tax and legal requirements.

CFT 110A Period Case Furniture Design         (3, 4)
1½ or 2 hours lecture - 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 105
Transfer acceptability: CSU
Focus is on the design of a period furniture project. Use of advanced level of joinery utilizing design; mortise and tenon; dovetails; frame and panel; and other joinery used in period case furniture.

CFT 110B Contemporary Case Furniture Design   (3 - 4)
1½ - 2 hours lecture - 4½ - 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 105
Transfer acceptability: CSU
Design of a contemporary furniture project. Use advanced level of joinery utilizing design; mortise and tenon; dovetails; frame and panel; and other joinery used in contemporary case furniture.

CFT 111A Period Case Furniture Production     (3, 4)
1½ or 2 hours lecture - 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 110A
Transfer acceptability: CSU
Production phase of period case furniture. Emphasis is on the completion of a solid wood period case furniture piece. Includes details such as traditional joinery; door and drawer construction methods; furniture hardware; and various finishing choices. Creation of special molding and spindle turnings for decorating the carcasse will also be explored.

CFT 111B Contemporary Case Furniture Production (3, 4)
1½ or 2 hours lecture - 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 110B
Transfer acceptability: CSU
Production phase of contemporary case furniture. Emphasis is on the completion of a solid wood contemporary case furniture piece. Includes traditional joinery; door and drawer construction; furniture hardware; finishing choices; and wood lamination. Creation of special molding and spindle turnings and CNC milling will also be explored.
CFT 118  Furniture Design Development  
1 hour lecture - 3 hours laboratory  
Transfer acceptability: CSU

Fundamental elements and principles of design while developing unique design methodologies and creative practices. Practical skills such as sketching, drawing, drafting, and model making will be stressed. In addition, students will explore wood as a creative medium by experimenting with a variety of surface textures and treatments.

CFT 120  Advanced Furniture Lab  
1½, 3, 4½, 6, 7½, or 9 hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 100  
Transfer acceptability: CSU

Laboratory for students who need additional lab time to complete difficult, complex projects. Students will work under the supervision of an instructor.

CFT 122  Cabinetmaking Construction Lab  
1½, 3, 4½, 6, 7½, or 9 hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 100  
Transfer acceptability: CSU

Cabinetry and other complex projects. Students will work under the supervision of an instructor.

CFT 128  Stringed Instruments Lab  
1½, 3, 4½, 6, 7½, or 9 hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 100  
Transfer acceptability: CSU

CFT 132A  Ukulele Making I/Tenor Ukulele  
1½, 3, 4½, 6, 7½, or 9 hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 100  
Transfer acceptability: CSU

CFT 134A  Electric Guitar Construction I/Solid Body  
1½, 2, or 2½ hours lecture - 3, 4½, or 6 hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 100  
Transfer acceptability: CSU

The construction of a simple solid body electric guitar, either a “strat” or “tele” style, provides basic processes and construction details involved in the building of electric guitars, as well as the basic electronics. Skills gained in other CFT courses will be used to mill and fabricate parts. Production work and completion of an electric guitar are required. Excellent woodworking skills are essential. An extremely demanding and fast-paced course.

CFT 135  Acoustic Guitar Making I  
1½, 2, or 2½ hours lecture - 4½, 6, or 7½ hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 100  
Transfer acceptability: CSU

First course of a two-semester sequence. Prepares students for a career as a luthier while studying the history, anatomy, construction methods, design, tone, and sound theory of acoustic guitars. Construction of either a nylon string or steel string acoustic guitar is required. Considerable prior woodworking/instrument making experience is recommended.

CFT 136  Acoustic Guitar Making II  
1½, 2, or 2½ hours lecture - 4½, 6, or 7½ hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 135  
Transfer acceptability: CSU

Second course of a two-semester sequence. Prepares students for a career as a luthier while studying the history, anatomy, construction methods, design, tone, and sound theory of acoustic guitars. Construction of either a nylon string or steel string acoustic guitar is required. Considerable prior woodworking/instrument making experience is recommended.

CFT 137  Arch Top Guitar Construction I  
1½, 2, or 2½ hours lecture - 4½, 6, or 7½ hours laboratory  
Prerequisite: A minimum grade of 'C' in CFT 100  
Transfer acceptability: CSU

First course of a two-semester sequence. Prepares students for a career as a luthier while studying the history, anatomy, construction methods, design, tone, and sound theory of acoustic guitars. Construction of an Arch Top Guitar (somewhat like a violin with the front and back plates carved to a thin arched shape from thick stock) is required. Considerable prior woodworking/instrument making experience is recommended.
CFT 138  Arch Top Guitar Construction II  
1½, 2, or 2½ hours lecture - 4½, 6, or 7½ hours laboratory 
Prerequisite: A minimum grade of C' in CFT 137 
Transfer acceptability: CSU 
Second course of a two-semester sequence. Prepares students for a career as a luthier while studying the history, anatomy, construction methods, design, tone, and sound theory of acoustic guitars. Construction of an Arch Top Guitar (somewhat like a violin with the front and back plates carved to a thin arched shape from thick stock) is required. Considerable prior woodworking/instrument making experience is recommended.

CFT 142  The Art and Craft of Planemaking  
½, 1, or 1½ hours lecture - 1½, 3, or 4½ hours laboratory 
Prerequisite: A minimum grade of C' in CFT 100 
Transfer acceptability: CSU 
Teaches students to make wooden hand planes. Through the use of lecture, handouts, demonstrations and videos, the following topics will be covered: the history of planemaking; tuning and using wooden and metal planes; designing a plane; making and tuning laminated planes; cutting, tempering and sharpening a plane iron; designing, making and using a wooden plane.

CFT 143  Decorative Box Making  
1, 1½ or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 105 
Transfer acceptability: CSU 
Concentrates on the skills and techniques needed to make finely crafted heirloom quality boxes. Types of boxes include: jewelry, cigar humidor, and silver chest. Topics include: design, function, selection of materials, construction techniques, partitions, linings, hardware, assembly techniques, hinge installation, and finishing techniques.

CFT 144  Production Wood Products I  
½ or 1, 1½ or 2 hours lecture - 1½ or 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 100 
Transfer acceptability: CSU 
Methods and techniques of high production manufacturing are learned through lecture, demonstration and extensive lab work in a production mode. The wood products manufactured in this course may be donated to local charities.

CFT 145  Production Wood Products II  
½ or 1, 1½ or 2 hours lecture - 1½ or 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 144 
Transfer acceptability: CSU 
Students will be Team Leaders/Managers in design, planning, time and material managements, and production. Includes organizing schedules, material flow, and production techniques. The wood products manufactured in this course may be donated to local charities.

CFT 148  Marquetry, Inlay and Veneering  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 100 and CFT 151 
Transfer acceptability: CSU 
Examines the history of Marquetry. Students will use the tools necessary to complete a Marquetry project which includes: veneer hammer, hide and other glues, veneer tape, scroll saw, veneer saw and related tools and equipment. The various methods of cutting veneers will be examined as well as methods for cutting, assembling and installing inlay.

CFT 149  Hand Joinery I  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 105 
Transfer acceptability: CSU 
Exploration of hand tool techniques with application to fine furniture. Skills will be developed through the construction of sample joints and a simple project. Topics include: marking and layout tools, cutting tools, use of the workbench and its accessories, hand saws and their use, Japanese and Western tools, dovetail joinery, mortise and tenon joinery, squaring and sizing with a hand plane, sharpening hand tools and building a simple carcass.

CFT 151  Veneering Technology I  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 105 
Transfer acceptability: CSU 
Introduction to the use of veneers in furniture making. Topics include: understanding veneer as a material, cutting and seaming veneer, pressing veneer using traditional and modern methods, creating sunbursts and other multi-piece matches, using and maintaining various cutting tools and sawing your own veneer.

CFT 152  Veneering Technology II  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 151 
Transfer acceptability: CSU 
Advanced veneering techniques which include working with radius shapes, hand and machine, hammer veneering, and installation of bandings and stringings. Demonstration of abilities will be required with the construction of a small piece of furniture.

CFT 153  Studio Furniture Design I  
1 hour lecture - 3 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 105 
Transfer acceptability: CSU 
Exploration of historical design concepts and their application to contemporary work. Development of drawing skills needed to design one of a kind studio furniture.

CFT 155  Classic American Chair Designs  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 155 
Transfer acceptability: CSU 
Chair making which emphasizes the use of traditional chair making tools to shape raw wood into chair parts. Topics include the history of Windsor and Ladder Back chair designs; harvesting raw materials from a tree; proper sharpening of the hand tools; shaping, steam bending, kiln drying and assembling the chair parts; seat weaving; and traditional finishing appropriate to each chair style.

CFT 156  Advanced Classic American Chair Designs  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 155 
Transfer acceptability: CSU 
Chair making which emphasizes the use of traditional chair making tools to shape raw wood into chair parts. Skill development and improved craftsmanship is emphasized while learning to make more complex chairs. Advanced chair designs include: bow back, continuous arm, writing arm, double and triple settees and fan back Windsor chairs; Appalachian style three-slat side chair, four-slat arm chair, bar stools, youth rocker and six-slat rocking chair.

CFT 159A  Chair and Tables/Prototype Construction I  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 105 
Transfer acceptability: CSU 

CFT 159B  Chair and Tables/Prototype Construction II  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 105 
Transfer acceptability: CSU 
Table design and construction. Covers the history of table making. Design and application of pattern making techniques on student-selected projects. Machine tool operations necessary to produce various table leg, trussel, and base designs.

CFT 160A  Chairs and Tables/Production Manufacturing I  
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory 
Prerequisite: A minimum grade of C' in CFT 159A 
Transfer acceptability: CSU 
Second semester of a two-semester class (CFT 159A and CFT 160A). Chair and seating construction production and advanced machine tool techniques are used as they relate to chair making. Fine joinery, theory and advanced techniques.
CFT 160B Chairs and Tables/Production Manufacturing II (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 159B
Transfer acceptability: CSU

CFT 163 Plastic Laminate Fabrication Techniques (1, 2)
½ or 1 hour lecture - ½ or 3 hours laboratory
Transfer acceptability: CSU
Examines the manufacturing process for plastic laminate products, including tools, adhesives, jigs, application and installation techniques. Lectures, demonstrations, and hands-on exercises will give students the opportunity to develop the proficiency and knowledge to design, build and install plastic laminate products.

CFT 165A Cabinetry Design/Frame Face (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 105
Transfer acceptability: CSU
First course of a two-semester sequence (CFT 165A and CFT 167A). Emphasis is on face frame cabinets. Study of the principles of traditional and European styles of cabinetwork as used to construct and install cabinetry in residential and commercial applications, with preference given to residential applications.

CFT 165B Cabinetry Design/European (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 105
Transfer acceptability: CSU
First course of a two-semester sequence (CFT 165B and CFT 167B). With an emphasis on European 32mm cabinets. Study of the principles of traditional and European styles of cabinetwork as used to construct and install cabinetry in residential and commercial applications, with preference given to residential applications.

CFT 167B Cabinetry Production/European (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 165B
Transfer acceptability: CSU
Second course of a two-semester sequence. Students will learn and apply the construction methods and installation processes of face frame cabinets by constructing the cabinets designed in CFT 165A.

CFT 168 Cabinetmaking/Architectural Millwork (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 105
Transfer acceptability: CSU
Historical and modern architectural millworking techniques used in frame and panel systems, doors, fireplaces, wall systems, staircases, and built in components. Hands on experience on student selected projects may include woodworking, woodworking, construction of doors and windows and the production/installation of moldings.

CFT 169 Cabinetmaking/Computer Cabinet Layout (2, 3)
1 or 1½ hours lecture - 3 or 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 105
Transfer acceptability: CSU
Selection and application of appropriate software as developed for the cabinet industry. Development of industrial standard cabinet plans and specifications utilizing personal-size computer and software programs.

CFT 170 Workbench Design and Production (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 100
Transfer acceptability: CSU
Design and construction of the most basic of woodworking tools, a workbench. Process rough lumber to maximize yield and minimize waste. Students will be allowed to customize the size of their bench to fit individual requirements within limits. However, mass-production techniques will not be sacrificed. In addition, a broad review of woodworking vises and other bench accessories will be conducted so that students will be able to further customize their own bench.

CFT 179 Woodworking and Joinery (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 159B
Transfer acceptability: CSU
Introduction to basic CAD concepts and their direct application to the design and drawing of custom cabinets and furniture, as an alternative to hand drawn plans and a starting point to Computer Assisted Manufacturing.

CFT 177 Lathe III - Advanced Turning (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 176
Transfer acceptability: CSU
Emphasis on Spindle Turning or turning Between Centers. Students will learn the history of the lathe, the components of the lathe and how to select the best lathe and accessories for their particular turning style. Discussion of tool selection, proper tool sharpening techniques, what to expect from a basic set of turning tools with emphasis on the skew, the gouge, the parting tool and importantly – the handle. Design and fabrication of tool handles, including tool making and tool modification. Additionally, projects will include turning a mallet, tool handles, kitchen utensils, “weed vases” and ornaments. Introduction to bowl turning and turning other than solid wood such as laminates and acrylics.

CFT 178 Lathe II - Intermediate Turning (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 177
Transfer acceptability: CSU
The study of architectural turning in relation to furniture making and overall advanced turning techniques. Discussion of tool selection, proper tool sharpening techniques, what to expect from a basic set of turning tools, with emphasis on the skew, gouge, parting tool, and an introduction to specialty turning tools. Split turning, offset turning, multi-axis turning, and duplication will be introduced.

CFT 180 Lathe I - Introductory Turning (2, 3, 4)
1, 1½, or 2 hours lecture - 3, 4½, or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CFT 178
Transfer acceptability: CSU
Continuation of Lathe II - Intermediate Turning, Exploration of techniques and material in-depth, and focus on mastery.
CFT 180  Wood Bending and Lamination/Technology (2, 3, 4)
Wood Technology
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Prerequisite: A minimum grade of 'C' in CFT 105
Transfer acceptability: CSU
Principles and practical applications of both wood bending and lamination. Mechanical and chemical means of bending wood studied and developed, specific structure and properties of wood are developed.

CFT 185  Machine Tool Set up and Maintenance (2, 3, 4)
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Prerequisite: A minimum grade of 'C' in CFT 100
Transfer acceptability: CSU
Set up, repair, rebuild, and maintain tools and machines used in the wood-related industries. Machine tool operations studies and applied. Consumer information developed to acquaint student with machines and tools within the field. Planned maintenance schedules developed and applied.

CFT 187  Introduction to Carving (2, 3, 4)
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Transfer acceptability: CSU
This beginning course in carving introduces students to the tools and techniques used in carving wood. The course includes specifics of available tools, their proper handling and maintenance, as well as discussions of layout and carving methods as applied to furniture and architectural millwork.

CFT 188  Intermediate Carving (2, 3, 4)
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Prerequisite: A minimum grade of 'C' in CFT 187
Transfer acceptability: CSU
Examines methods relating to both low and high relief carving, as well as incised lettering. More complex layout and carving techniques are undertaken. Concepts such as setting-in and blocking-out are introduced while modeling, introduced in the beginning course, is more fully developed.

CFT 189  Advanced Carving (2, 3, 4)
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Transfer acceptability: CSU
Advanced carving is a topical study of specific carving applications as they relate to furniture or architectural millwork. Topics are largely gathered from period styles and may include ball and claw feet, Newport shells, and Philadelphia rococo, as well as contemporary interpretations, Art Nouveau, and maritime themes. See Class Schedule for specific period styles/themes to be emphasized.

CFT 190  Advanced Wood Finishing (2, 3, 4)
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Prerequisite: A minimum grade of 'C' in CFT 195
Transfer acceptability: CSU
Wood finishing history, processes, and application of multiple colors and complex finishes on furniture. Topics include media, solvents and tools used to apply media, faux finishes, gilding, coloring the finishing materials, turning broken or missing parts, and veneer repair.

CFT 195  Finishing Technology/Touch Up and Repair (2, 3, 4)
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Prerequisite: A minimum grade of 'C' in CFT 100
Transfer acceptability: CSU
Finishes as used in the wood-related fields. Study and use of penetrating, surface, epoxy, catalytic, and resin surface finishes. Preparation to include staining, filling, and glazing. Chemistry of lacquers, urethanes, oils, and enamels. Instruction and practice in the touch-up of existing finishes through use of French polishing, burn-in sticks, and dry aniline staining. Repair of fine furniture as necessary prior to finishing.

CFT 197  Cabinet and Furniture Technology Topics (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Cabinet and Furniture Technology. See class schedule for specific topic covered. Course title will designate subject covered.

CFT 198  Advanced Wood Finishing (2, 3, 4)
1, 1 1/2, or 2 hours lecture - 3, 4 1/2, or 6 hours laboratory
Prerequisite: A minimum grade of 'C' in CFT 195
Transfer acceptability: CSU
Wood finishing history, processes, and application of multiple colors and complex finishes on furniture. Topics include media, solvents and tools used to apply media, faux finishes, gilding, coloring the finishing materials, turning broken or missing parts, and veneer repair.

CHEM 10  Chemistry Calculations (1)
1 hour lecture
Note: Pass/No Pass grading only
Non-degree Applicable
The basic calculation skills needed for successful performance in CHEM 110, 111, and 115. Areas such as significant figures, exponential numbers, and basic chemical problems are discussed. Emphasizes student practice of chemistry problems.

CHEM 100  Fundamentals of Chemistry (4)
3 hours lecture - 3 hours laboratory
Prerequisite: One year of high school algebra
Transfer acceptability: CSU; UC - no credit if taken after CHEM 110
Introductory study of the principles and laboratory techniques of general chemistry. Laboratory must be taken concurrently with lecture.
CHEM 104  General Organic and Biochemistry  
4 hours lecture - 3 hours laboratory  
Transfer acceptability: CSU; UC  
This course will cover the basic principles of general chemistry, organic chemistry and biochemistry as needed to understand the biochemistry, physiology, and pharmacology of the human body. This course is intended mainly for students pursuing health professions.

CHEM 105  Fundamentals of Organic Chemistry  
3 hours lecture - 3 hours laboratory  
Prerequisite: A minimum grade of 'C' in CHEM 100, or CHEM 110 and 110L  
Transfer acceptability: CSU; UC  
An introduction to the study of organic chemistry with an emphasis on classification, reactions, and application to allied fields. Laboratory includes techniques of isolation, identification, and synthesis of organic compounds.

CHEM 110  General Chemistry  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in CHEM 100 or high school chemistry with laboratory, and two years of high school algebra or MATH 60  
Corequisite: CHEM 110L  
Recommend preparation: Concurrent enrollment in CHEM 110  
C-ID CHEM 110 for CHEM 110 and 110L combined; CHEM 120S for CHEM 110, 110L, 115 and 115L combined  
Principles of, and calculations in, areas such as atomic structure, solutions, chemical bonding, chemical formulas and equations, gases, energy transformations accompanying chemical changes, and descriptive chemistry.

CHEM 110L  General Chemistry Laboratory  
6 hours laboratory  
Prerequisite: A minimum grade of 'C' in CHEM 110, or concurrent enrollment in CHEM 110  
Transfer acceptability: CSU; UC  
C-ID CHEM 110 for CHEM 110 and 110L combined; CHEM 120S for CHEM 110, 110L, 115 and 115L combined  
Qualitative and quantitative investigations designed to accompany CHEM 110.

CHEM 115  General Chemistry  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in CHEM 110 and 110L  
Recommended preparation: Concurrent enrollment in CHEM 115L  
Transfer acceptability: CSU; UC  
C-ID CHEM 120S for CHEM 110, 110L, 115 and 115L combined  
A continuation of the general principles of chemistry with emphasis on chemical kinetics, chemical equilibria acids and bases, thermodynamics and electrochemistry. It includes an overview of coordination chemistry and organic chemistry.

CHEM 115L  General Chemistry Laboratory  
6 hours laboratory  
Prerequisite: A minimum grade of 'C' in CHEM 110 and 110L; A minimum grade of 'C' in CHEM 115, or current enrollment in CHEM 115  
Transfer acceptability: CSU; UC  
C-ID CHEM 120S for CHEM 110, 110L, 115 and 115L combined  
Qualitative and quantitative investigations designed to accompany CHEM 115.

CHEM 197  Chemistry Topics  
(5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Topics in Chemistry. See Class Schedule for specific topic offered. Course title will designate subject covered.

CHEM 205  Introductory Biochemistry  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in CHEM 105  
Transfer acceptability: CSU; UC  
Fundamental principles of the chemistry of living systems, including structure and function of proteins, nucleic acids, carbohydrates, and lipids. Emphasis on metabolism, energy storage and utilization.

CHEM 220  Organic Chemistry  
3 hours lecture - 6 hours laboratory  
Prerequisite: A minimum grade of 'C' in CHEM 115 and CHEM 115L  
Transfer acceptability: CSU; UC  
Integrated treatment of organic chemistry including electronic and orbital theory with applications to carbon bonding, stereo chemistry, resonance theory, and reaction mechanisms of both aliphatic and aromatic compounds. Strong emphasis on organic nomenclature, reactions, preparations, and synthesis of organic compounds. Laboratory: Techniques and theories involved in organic reactions and preparations, qualitative organic analysis, and instrumental methods.

CHEM 221  Organic Chemistry  
3 hours lecture - 6 hours laboratory  
Prerequisite: A minimum grade of 'C' in CHEM 220  
Transfer acceptability: CSU; UC  
Continuation of the integrated treatment of organic chemistry including electronic and orbital theory with applications to carbon bonding, stereo chemistry, resonance theory, and reaction mechanisms of both aliphatic and aromatic compounds. Strong emphasis on organic nomenclature, reactions, preparations, and synthesis of organic compounds. Laboratory: techniques and theories involved in organic reactions and preparations, qualitative organic analysis, and instrumental methods.

CHEM 295  Directed Study in Chemistry  
(1, 2, 3)  
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Independent study for students who have demonstrated skills and/or proficiencies in chemistry subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Chicano Studies (CS)  
See also Multicultural Studies

Contact the Multicultural Studies Department for further information.  
760-744-1150, ext. 2206  
Office: MD-354

COURSE OFFERINGS

CS 100  Introduction to Chicano Studies  
3 hours lecture  
Transfer acceptability: CSU; UC  
The development of contemporary Chicano culture including various pre Columbian and Hispanic cultures in Mexico and the Southwest. A cross disciplinary approach examines applicable methods and theories from sciences and humanities.
CS 101 United States History from a Chicano Perspective I (3)
3 hours lecture
Note: This course plus CS 102 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC
A survey of early American history from the Mexican/Chicano perspective. Focus is on the period of discovery to Reconstruction with emphasis on the evolution, influence and experience of the Chicano. Chicano contributions are analyzed for political, social, economic and cultural development of the United States. Intended for students interested in history, ethnic studies or other social sciences.

CS 102 United States History from a Chicano Perspective II (3)
3 hours lecture
Note: This course plus CS 101 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC
A survey course in American history that covers the period from the American acquisition in 1848 of Mexican territory to the present. Emphasis is placed on the role of the Chicano in the development of the United States throughout the nineteenth and twentieth century. Topics include slavery in the former Mexican territories, the native American experience, immigration patterns and constitutional development and government in California. Intended for students interested in history, ethnic studies, or other social issues.

CS 105 Chicano Literature (3)
3 hours lecture
Transfer acceptability: CSU; UC
A survey of Chicano literature from its pre-Columbian origins. Analyzes the identity conflicts resulting from the dual cultures of Mexican and American worlds through literary works. Introduces the student to the rich and culturally diverse Chicano and Chicana authors that reflect the literary traditions that have mirrored the Chicano-Mexican reality in the United States.

CS 140 Chicana Thought and Cultural Expression (3)
3 hours lecture
Transfer acceptability: CSU; UC
This course is the study of the Chicana in America society in historical and sociological perspective. Emphasis is placed on Chicana feminist scholarship and cultural representations, border issues, resistance to patriarchy, and the search for power. This course is designed for all students interested in Chicana and Chicano studies.

CS 155 Ancient Civilizations of Meso America (3)
3 hours lecture
Note: Cross listed as ANTH 155
Transfer acceptability: CSU; UC
Civilizations of Pre Columbian Mexico and Central America with a focus on their origins and achievements.

Child Development (CHDV)
Contact the Child Development Department for further information.
760-744-1150, ext. 2206
Office: MD-354
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
Associate Degrees for transfer IGETC and CSUGE requirements are listed in Section 7 (green pages).
For transfer information, consult a Palomar College counselor at 760-891-7511

PROGRAMS OF STUDY
Child Development courses prepare students for employment as an aide, teacher, and/or director in a preschool or a child care center (including infant/toddler facilities), as family child care providers, and for other Child Development careers in early childhood education fields. Courses are also appropriate for parents, nannies, recreation leaders, camp counselors, elementary school teaching assistants (some classes may be used as a foundation for elementary school teachers), social services and health care practitioners, early childhood administrators, and others working with young children.

Community Care Licensing State Regulations require students who work with young children to have a minimum of 12 units in Child Development. CHDV 100 and 115 are required core courses. To complete the remaining 6 units, at least 3 units must be a curriculum course from the following: CHDV 105, CHDV 106, CHDV 125, CHDV 130, CHDV 135, CHDV 140, or CHDV 185.

Certificates meet the course requirements for teachers, site supervisors, and directors of private child care programs licensed by the California State Department of Social Services (Title 22). Community Care Licensing. The programs also meet the course requirements for the Child Development Permit issued by the California Commission on Teacher Credentialing. Child Development programs that are state funded or federally funded (Title 5 programs such as, Head Start, state preschool, etc.) follow the Child Development Permit matrix. In addition to the course work listed in the certificate, students must have experience working with young children in order to obtain Child Development Permit from the State of California. For specific questions relating to the Child Development Permit, please contact the Child Development department chair for further information.

In order to earn any of the Child Development degrees or certificates, students must achieve a minimum grade of ‘C’ in each of the required courses.

The Child Development Department requires that students obtain a Palomar College Student Activity card for use as identification in order to complete course requirements.

Assistant Teacher (CP)
This program includes a selection of courses that provides academic preparation to individuals for a career in the field of child development. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children in an entry level position.

CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV 99 Preparation for Child Development Majors</td>
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</tr>
<tr>
<td>CHDV 100 Child Growth and Development</td>
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</tr>
<tr>
<td>CHDV 105 Observation and Assessment</td>
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<tr>
<td>and</td>
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<tr>
<td>CHDV 105A Observation, Assessment, and Participation Lab: Preschool</td>
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<td>or</td>
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<td>CHDV 105B Observation, Assessment, and Participation Lab: Infant/Toddler</td>
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<tr>
<td>or</td>
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</tr>
<tr>
<td>CHDV 105C Observation, Assessment, and Participation Lab: Early Inclusion</td>
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<tr>
<td>or</td>
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<tr>
<td>CHDV 115 Child, Family, and Community</td>
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<tr>
<td>CHDV 120 Health, Safety, and Nutrition</td>
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<td>CHDV 185 Introduction to Curriculum</td>
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<td>TOTAL UNITS</td>
<td>16.5</td>
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</table>

See Catalog addendum at http://www.palomar.edu/catalog
Child and Family Services (AS, CA)
This program includes a selection of courses that provides academic preparation to individuals for a career in working with families in an early childhood environment. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children and families.

The 37.5 units listed in this section enable students to complete a Child and Family Services Certificate.

Students also have the option to earn an Associate in Science Degree in Child Development by completing 37.5 units for this Certificate and the General Education courses required by the college.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>CHDV 101 Principles and Practices of Teaching Young Children</td>
<td>3</td>
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<tr>
<td>CHDV 102 Working with Parents and Families</td>
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<td>CHDV 104 Guidance for Young Children</td>
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<td>CHDV 105 Observation and Assessment</td>
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<td>CHDV 105B Observation, Assessment, and Participation Lab: Infant/Toddler</td>
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<td>CHDV 105C Observation, Assessment, and Participation Lab: Early Inclusion</td>
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<tr>
<td>CHDV 115 Child, Family, and Community</td>
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<tr>
<td>CHDV 120 Health, Safety, and Nutrition</td>
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<tr>
<td>CHDV 145 Understanding Child Abuse and Family Violence</td>
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<tr>
<td>CHDV 172 Teaching in a Diverse Society</td>
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<tr>
<td>CHDV 205 Internship in Child and Family Services</td>
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Electives (Select 6 units)

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<tr>
<th>Electives</th>
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<tr>
<td>CHDV 110 Introduction to Special Education</td>
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<tr>
<td>CHDV 112 Early Intervention and Inclusion</td>
<td>3</td>
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<tr>
<td>CHDV 174 Policies, Politics, and Ethics in Child Development</td>
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<tr>
<td>CHDV 197A Child Development Workshop: Cultural and Social Arts</td>
<td>0.5 - 4</td>
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<tr>
<td>CHDV 197B Child Development Workshop: Health, Safety, and Nutrition</td>
<td>0.5 - 4</td>
</tr>
<tr>
<td>CHDV 197C Child Development Workshop: Professional Development in Early Childhood Education</td>
<td>0.5 - 4</td>
</tr>
<tr>
<td>CHDV 197D Child Development Workshop: Parenting Topics</td>
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</tr>
</tbody>
</table>

TOTAL UNITS: 37.5

Child and Adolescent Development
The Associate in Arts in Child and Adolescent Development for Transfer prepares students to transfer to California State University campuses that offer bachelor’s degrees in Child and Adolescent Development. The degree prepares students to demonstrate basic understanding of child development theory and concepts, as well as preparation in lower-division psychology coursework designed to enhance further developmental study. Students who complete the Child and Adolescent Development AA-T degree and choose to take other child development coursework as their electives will also be able to qualify for employment in the field of Early Childhood Education, as well as earn a Child Development Permit issued by the California State Commission on Teacher Credentialing. This degree is separate from the Associate of Science for Transfer in Early Childhood Education, which prepares students to transfer to CSU campuses that offer bachelor’s degrees in Child Development and Early Childhood Education. The degree is ideal for students who plan to transfer for further theoretical, psychological, and developmental study in child and adolescent development, offering lower-division major preparation for baccalaureate degrees.

Pursuant to SB440, the following completion requirements must be met:

(i) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(ii) Obtainment of a minimum grade point average of 2.0.”

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in this major.

<table>
<thead>
<tr>
<th>Required Core</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHDV 100 Child Growth and Development</td>
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<tr>
<td>PSYC 100 Introduction to Psychology</td>
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<td>PSYC 105A Statistics for the Behavioral Sciences</td>
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<th>List A</th>
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<tr>
<td>CHDV 115 Child, Family, and Community</td>
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<tr>
<td>CHDV 185 Introduction to Curriculum</td>
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<tr>
<td>PSYC 230 Research Methods in Psychology</td>
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</table>

TOTAL UNITS: 20

Early Childhood Administration (AS, CA)
This program includes a selection of courses that provides academic preparation to individuals for a career as a director or site supervisor in an early childhood setting. The program will give students general knowledge and skills in theory, principles, and techniques for working in an administrative position.

The 40 units listed in this section enable students to complete an Early Childhood Administration Certificate.

Students also have the option to earn an Associate in Science Degree in Child Development by completing 40 units for this Certificate and the General Education courses required by the college.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHDV 99 Preparation for Child Development Majors</td>
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<tr>
<td>CHDV 100 Child Growth and Development</td>
<td>3</td>
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<tr>
<td>CHDV 102 Working with Parents and Families</td>
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<td>CHDV 104 Guidance for Young Children</td>
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<td>CHDV 105 Observation and Assessment</td>
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<tr>
<td>CHDV 105A Observation, Assessment, and Participation Lab: Preschool</td>
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</tr>
<tr>
<td>CHDV 105B Observation, Assessment, and Participation Lab: Infant/Toddler</td>
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</tr>
<tr>
<td>CHDV 105C Observation, Assessment, and Participation Lab: Early Inclusion</td>
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<tr>
<td>CHDV 115 Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 120 Health, Safety, and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 145 Understanding Child Abuse and Family Violence</td>
<td>3</td>
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<tr>
<td>CHDV 172 Teaching in a Diverse Society</td>
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<tr>
<td>CHDV 205 Internship in Child and Family Services</td>
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Electives (Select 6 units)

<table>
<thead>
<tr>
<th>Electives</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHDV 110 Introduction to Special Education</td>
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<tr>
<td>CHDV 112 Early Intervention and Inclusion</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 174 Policies, Politics, and Ethics in Child Development</td>
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<tr>
<td>CHDV 197A Child Development Workshop: Cultural and Social Arts</td>
<td>0.5 - 4</td>
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<tr>
<td>CHDV 197B Child Development Workshop: Health, Safety, and Nutrition</td>
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<tr>
<td>CHDV 197C Child Development Workshop: Professional Development in Early Childhood Education</td>
<td>0.5 - 4</td>
</tr>
<tr>
<td>CHDV 197D Child Development Workshop: Parenting Topics</td>
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TOTAL UNITS: 37.5
### Electives (Select 3.5 units)

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<th>Course</th>
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<td>CHDV 101</td>
<td>Principles and Practices of Teaching Young Children</td>
<td>3</td>
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<tr>
<td>CHDV 103</td>
<td>Infant and Toddler Development</td>
<td>3</td>
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<tr>
<td>CHDV 108</td>
<td>Developmentally Appropriate Principles and Practices</td>
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<tr>
<td>CHDV 110</td>
<td>Introduction to Special Education</td>
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<tr>
<td>CHDV/COMM 144</td>
<td>Exploring the Effects of Media on Young Children</td>
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<td>CHDV 145</td>
<td>Understanding Child Abuse and Family Violence</td>
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<tr>
<td>CHDV 152A</td>
<td>Environmental Rating Scale for Early Childhood Settings</td>
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<tr>
<td>or CHDV 152B</td>
<td>Environmental Rating Scale for Infant/Toddler Settings</td>
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<tr>
<td>or CHDV 152C</td>
<td>Environmental Rating Scale for Family Child Care</td>
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<tr>
<td>or CHDV 152D</td>
<td>Environmental Rating Scale for School Age Care</td>
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<tr>
<td>CHDV 172</td>
<td>Teaching in a Diverse Society</td>
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</tbody>
</table>

**TOTAL UNITS:** 40

*CHDV 150 and 155 courses are administration courses required for director positions in licensed child care facilities through Community Care Licensing.

### Early Childhood Education (AS-T)

The Associate in Science in Early Childhood Education for Transfer includes a selection of courses designed to align with the lower division child development/early childhood education programs offered in the CSU system. The degree provides academic preparation to individuals for a career as an early childhood educator. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children.

The Student Transfer Achievement Reform Act (now codified in California Education sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an associate degree for transfer, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Science (AS-T) for Transfer is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU system. This program includes a selection of courses that provide academic preparation for a teaching career working with typically developing children and children with disabilities (birth to 5 years) in inclusive settings. This program will give students general knowledge and skills in theory, principles, and techniques for work in inclusive settings.

Pursuant to SB1440, the following completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

- Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

Students completing this degree program may enter the following careers (examples, but not limited to):
- Infant/Toddler lead or co-teacher
- Preschool lead or co-teacher
- Family childcare provider
- Early childhood community agency service provider or home visitor
- Early childhood curriculum specialist

### AS-T TRANSFER MAJOR

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>CHDV 100</td>
<td>Child Growth and Development</td>
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<tr>
<td>CHDV 101</td>
<td>Principles and Practices of Teaching Young Children</td>
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<tr>
<td>CHDV 105</td>
<td>Observation and Assessment</td>
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<td>CHDV 105A</td>
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<td>or CHDV 105B</td>
<td>Observation, Assessment, and Participation Lab: Infant/Toddler</td>
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<tr>
<td>or CHDV 105C</td>
<td>Observation, Assessment, and Participation Lab: Early Inclusion</td>
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<tr>
<td>CHDV 115</td>
<td>Child, Family, and Community</td>
<td>3</td>
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<tr>
<td>CHDV 120</td>
<td>Health, Safety, and Nutrition</td>
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<tr>
<td>CHDV 172</td>
<td>Teaching in a Diverse Society</td>
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<tr>
<td>CHDV 185</td>
<td>Introduction to Curriculum</td>
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<tr>
<td>CHDV 201</td>
<td>Practicum in Early Childhood Education</td>
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**TOTAL UNITS:** 26

### Early Inclusion Teacher (AS, CA)

This program provides a selection of courses that provide academic preparation for a teaching career working with typically developing children and children with disabilities (birth to 5 years) in inclusive settings. This program will give students general knowledge and skills in theory, principles, and techniques for work in inclusive settings.

Students also have the option to earn an Associate in Science Degree in Child Development by completing the 40 units for this Certificate and the General Education courses required by the college.

### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
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<td>CHDV 99</td>
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<td>CHDV 103</td>
<td>Infant and Toddler Development</td>
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<tr>
<td>CHDV 105</td>
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<td>CHDV 110</td>
<td>Introduction to Special Education</td>
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<td>CHDV 112</td>
<td>Early Intervention and Inclusion</td>
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<td>CHDV 115</td>
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<tr>
<td>or CHDV 152B</td>
<td>Environmental Rating Scale for Infant/Toddler Settings</td>
<td>1.5</td>
</tr>
<tr>
<td>or CHDV 152C</td>
<td>Environmental Rating Scale for Family Child Care</td>
<td>1.5</td>
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<tr>
<td>or CHDV 152D</td>
<td>Environmental Rating Scale for School Age Care</td>
<td>1.5</td>
</tr>
<tr>
<td>CHDV 172</td>
<td>Teaching in a Diverse Society</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 201</td>
<td>Practicum in Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>or CHDV 204</td>
<td>Advanced Practicum in Early Childhood Education: Inclusive Setting</td>
<td>3</td>
</tr>
</tbody>
</table>

See Catalog addendum at [http://www.palomar.edu/catalog](http://www.palomar.edu/catalog)
Education courses required by the college.

Development by completing 40 units for this Certificate and the General Teacher Certificate.

The 40 units listed in this section enable students to complete an Infant/Toddler group of children.

This program will give students general knowledge and skills in theory, principles, and techniques for working with young children ages three to six.

The 40 units listed in this section enable students to complete a Preschool Teacher Certificate.

Students also have the option to earn an Associate in Science Degree in Child Development by completing 40 units for this Certificate and the General Education courses required by the college.

**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV 99 Preparation for Child Development Majors</td>
<td>0.5</td>
</tr>
<tr>
<td>CHDV 100 Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 103 Infant and Toddler Development</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 104 Guidance for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 105 Observation and Assessment and</td>
<td>3</td>
</tr>
<tr>
<td>* CHDV 105B Observation, Assessment, and Participation Lab: Infant/Toddler</td>
<td>1</td>
</tr>
<tr>
<td>CHDV 106 Infant and Toddler Care and Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 115 Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 120 Health, Safety, and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 142 Using Sign in the Early Childhood Setting</td>
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<tr>
<td>CHDV 152B Environmental Rating Scale for Infant/Toddler Settings</td>
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</tr>
<tr>
<td>CHDV 185 Introduction to Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 201 Practicum in Early Childhood Education</td>
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<tr>
<td>*CHDV 203 Advanced Practicum in Early Childhood Education: Infant/Toddler</td>
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Electives (Select 9 units)

<table>
<thead>
<tr>
<th>Program Requirements</th>
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<tbody>
<tr>
<td>CHDV 108 Developmentally Appropriate Principles and Practices</td>
<td>1</td>
</tr>
<tr>
<td>CHDV 110 Introduction to Special Education</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 125 Art in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 130 Math and Science in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 135 Music and Creative Movement in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 140 Children's Literature and Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 142 Using Sign in the Early Childhood Setting</td>
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</tr>
<tr>
<td>COMM 144 Exploring the Effects of Media on Young Children</td>
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</tr>
</tbody>
</table>

**TOTAL UNITS** 40

* CHDV 105A and 203 placement for observation and supervised field experience must be in a classroom with infants or toddlers.

+ CHDV 203 should be taken in the last semester for this certificate or A.S. degree major program. Students must have completed, or be concurrently enrolled in all necessary classes required for this certificate during the semester they are enrolled in CHDV 203.

**Preschool Teacher (AS, CA)**

This program includes a selection of courses that provides academic preparation to individuals for a career as a preschool teacher in an early childhood setting. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children ages three to six.

The 40 units listed in this section enable students to complete a Preschool Teacher Certificate.

Students also have the option to earn an Associate in Science Degree in Child Development by completing 40 units for this Certificate and the General Education courses required by the college.

**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

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<thead>
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<tr>
<td>CHDV 99 Preparation for Child Development Majors</td>
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</tr>
<tr>
<td>CHDV 100 Child Growth and Development</td>
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<tr>
<td>CHDV 101 Principles and Practices of Teaching Young Children</td>
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<tr>
<td>CHDV 104 Guidance for Young Children</td>
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<tr>
<td>CHDV 105 Observation and Assessment and</td>
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</tr>
<tr>
<td>* CHDV 105A Observation, Assessment, and Participation Lab: Preschool</td>
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<tr>
<td>CHDV 115 Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 120 Health, Safety, and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 152A Environmental Rating Scale for Early Childhood Settings</td>
<td>1.5</td>
</tr>
<tr>
<td>CHDV 185 Introduction to Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 201 Practicum in Early Childhood Education</td>
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<tr>
<td>*+CHDV 202 Advanced Practicum in Early Childhood Education: Preschool</td>
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Electives (Select 5.5 units)

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<tr>
<th>Program Requirements</th>
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<tbody>
<tr>
<td>CHDV 101 Principles and Practices of Teaching Young Children</td>
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</tr>
<tr>
<td>CHDV 108 Developmentally Appropriate Principles and Practices</td>
<td>1</td>
</tr>
<tr>
<td>CHDV 110 Introduction to Special Education</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 125 Art in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 130 Math and Science in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 135 Music and Creative Movement in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 140 Children's Literature and Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 142 Using Sign in the Early Childhood Setting</td>
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</tr>
<tr>
<td>COMM 144 Exploring the Effects of Media on Young Children</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 40

* CHDV 105A and 203 placement for observation and supervised field experience must be in a classroom with preschool age children.

+ CHDV 202 should be taken in the last semester for this certificate or A.S. degree major program. Students must have completed, or be concurrently enrolled in all necessary classes required for this certificate during the semester they are enrolled in CHDV 202.
School Age Assistant (CP)

This program includes a selection of courses that provides academic preparation to individuals for a career working with school age children in before and after school and enrichment programs. The program will give students general knowledge and skills in theory, principles, and techniques for working with school age children in an entry level position.

CERTIFICATE OF PROFICIENCY

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV 99 Preparation for Child Development Majors</td>
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<tr>
<td>CHDV 100 Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 104 Guidance for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 115 Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 180 School-Age Development</td>
<td>3</td>
</tr>
<tr>
<td>CHDV 190 Curriculum for the School-Aged Child</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL UNITS</td>
<td>15.5</td>
</tr>
</tbody>
</table>

COURSE OFFERINGS

CHDV 99 Preparation for Child Development Majors (0.5)

Transfer acceptability: CSU; UC

Prepares Child Development majors to successfully complete child development course work at the 100 level and higher. Introduces the concepts of APA writing and format. Child Development department requirements for observations and lesson plans, skills to develop a professional portfolio, and creating a degree completion plan. It is strongly recommended that students complete this course in the first semester of enrollment in a Child Development program.

CHDV 100 Child Growth and Development (3)

Transfer acceptability: CSU

C-ID CDEV 100

Introductory course that examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.

CHDV 101 Principles and Practices of Teaching Young Children (3)

Transfer acceptability: CSU

C-ID ECE 120

An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all young children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity.

CHDV 102 Working with Parents and Families (3)

Transfer acceptability: CSU

Establishes the roles of preschool teachers, child-care providers, and early childhood administrators as effective partners with parents by developing a family-centered approach to parent involvement. Examines cultural and developmental diversity in relation to parent and family interactions and contacts. Develops skills and techniques in familial involvement including: communication, home visits, conferences, parent education, and group contacts with parents.

CHDV 103 Infant and Toddler Development (3)

Transfer acceptability: CSU

A study of the process of human development from conception to 36 months of age, as influenced by heredity, society, and human interaction, with implications for guidance. Prenatal development and the birth process are examined. In addition to typical and atypical developmental milestones in all domains, a focus on attachment in relation to development is emphasized.

CHDV 104 Guidance for Young Children (3)

Transfer acceptability: CSU

Designed to increase understanding of children’s behavior. Explores effective techniques for dealing with issues including separation, peer interaction, fears, frustrations and aggression. Emphasizes teaching children pro-social interactions, self control, and decision making skills. Focuses on understanding behavior as communication and expression of needs. Strategies for environmental controls for behavior are emphasized.

CHDV 105 Observation and Assessment (3)

Transfer acceptability: CSU

Corequisite: A minimum grade of ‘C’ in CHDV 100

Prerequisites: A minimum grade of ‘C’ in CHDV 100, or concurrent enrollment in CHDV 105

Recommended preparation: ENG 50

C-ID ECE 200

Focuses on the appropriate use of a variety of assessment and observation strategies, such as recording methods, rating systems, portfolios, and multiple assessment tools to document child development and behavior. Child observations will be conducted and analyzed in a variety of age ranges, including infant/toddler, preschool, early elementary and/or in early intervention settings.

CHDV 105A Observation, Assessment, and Participation Lab: Preschool (1)

Transfer acceptability: CSU

Prerequisite: A minimum grade of ‘C’ in CHDV 105, or concurrent enrollment in CHDV 105

C-ID ECE 200

Designed to give students direct experience in observing and recording children’s behaviors in a preschool or equivalent early childhood setting. Participating and working directly with young children (3 to 5 years) in a preschool classroom or equivalent setting is required. Laboratory experience will be completed at one of the Palomar College Child Development Centers on campus or with a department approved California Mentor Teacher.

CHDV 105B Observation, Assessment, and Participation Lab: Infant/Toddler (1)

Transfer acceptability: CSU

Prerequisite: A minimum grade of ‘C’ in CHDV 105, or concurrent enrollment in CHDV 105

C-ID ECE 200

Designed to give students direct experience through observing and recording children’s behaviors in an infant and/or toddler setting. Participating and working directly with infants and/or toddlers (0 to 3 years) in a classroom is required. Laboratory experience will be completed at one of the Palomar College Child Development Centers on campus or with a department approved California Mentor Teacher.

CHDV 105C Observation, Assessment, and Participation Lab: Early Inclusion (1)

Transfer acceptability: CSU

Prerequisite: A minimum grade of ‘C’ in CHDV 105, or concurrent enrollment in CHDV 105

C-ID ECE 200

Designed to give students direct experience through observing and recording children’s behaviors in an early childhood inclusive setting. Participating and working directly with children with special needs (0 to 5 years) in a classroom is required. Laboratory experience will be completed at one of the Palomar College Child Development Centers on campus or with a department approved California Mentor Teacher.

See Catalog addendum at http://www.palomar.edu/catalog
CHDV 106  Infant and Toddler Care and Curriculum  (3)
3 hours lecture  
**Recommended preparation:** CHDV 103  
**Transfer acceptability:** CSU  
A survey of program and activity planning for infants and toddlers (birth to 36 months) in child care programs, emphasizing the role of the environment on behavior, attachment, and development. Strategies for working with parents, observation and assessment skills and the need for professional development will be explored. Concepts of effective practice for infant and toddler care with an emphasis on communication, cultural differences, problem-solving, and providing an appropriate and nurturing environment for children of all ability levels.

CHDV 108  Developmentally Appropriate Principles and Practices  (1)
1 hour lecture  
**Transfer acceptability:** CSU  
Designed to introduce developmentally appropriate practices (DAP) and early learning standards (ELS). A focus will be placed on current best practices in curriculum activities, methods, and materials appropriate for planning a program for young children. Techniques for incorporating early learning standards into developmentally appropriate curriculum will be explored.

CHDV 110  Introduction to Special Education  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
Provides an overview of special education in the United States, including the historical antecedents, legislation, and disability categories covered by IDEA. Discussion of societal, family, and classroom issues relevant to children with special needs. Focus on fostering understanding and respect for people with differences, their families, and the professionals who serve them. This course does not focus on classroom teaching strategies specifically, rather it is an overview of the special education system in the US.

CHDV 112  Early Intervention and Inclusion  (3)
3 hours lecture  
**Recommended preparation:** CHDV 110  
**Transfer acceptability:** CSU  
This course focuses on the theories, research, and practical applications of special education in an early childhood setting, specifically with children from birth to age 8. Topics covered will include curriculum modification and accommodation strategies to facilitate the development of cognitive, motor, social, emotional, and language skills in infants, toddlers, and young children with disabilities. Specific emphasis will be placed on developing classroom and behavior management plans, collaborative teaching strategies, understanding the IFSP and IEP process as it relates to early childhood, and methods for working with professionals in the field as well as the families of children with special needs.

CHDV 115  Child, Family, and Community  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
C-ID CDEV 110  
An examination of the developing child in a societal context that focuses on the interrelationships of family, school, and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, focusing on understanding a holistic approach to child development.

CHDV 120  Health, Safety, and Nutrition  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
C-ID ECE 220  
Introduction to the laws, regulations, standards, policies and procedures, and early childhood curriculum related to child health, safety, and nutrition. The key components that ensure physical health, mental health, and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development.

CHDV 125  Art in Early Childhood  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
Methods and processes for developing creativity through art for young children. Students will plan, implement, and evaluate developmentally appropriate art and creative experiences for young children and apply theoretical concepts in a variety of ways. Materials used in art will be explored. An emphasis will be placed on the developmental and experiential approaches and techniques.

CHDV 130  Math and Science in Early Childhood  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
Students will examine math and science concepts for young children, infants through eight years. Students will plan, implement, and evaluate developmentally appropriate math and science experiences for young children and apply theoretical concepts using various methods. An emphasis is placed on developmental and experiential methods.

CHDV 135  Music and Creative Movement in Early Childhood  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
Developing creative experiences through music and movement activities for young children birth through age 8. Students will learn effective use of songs, movement, and instruments that enhance the teaching-learning environment. These include developing strategies for facilitating music and movement activities and integrating those activities throughout the curriculum.

CHDV 140  Children's Literature and Language Development  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
Survey of historic and contemporary children's literature. A critical look at children's books and the process of choosing age appropriate books for children infancy through adolescence. Overview of typical language development and literacy development from birth through early childhood, including theoretical approaches and developmental issues, as well as techniques for appropriately incorporating literacy into the classroom. Focus is on literacy development, literature and language development for children birth to age 8, although literature for children ages 8-16 is covered.

CHDV 142  Using Sign in the Early Childhood Setting  (5)
½ hour lecture  
**Transfer acceptability:** CSU  
Explores the benefits and research behind signing with infants, toddlers, and preschoolers. Techniques for implementing use of signs in the classroom with children will be discussed, as well as basic signing exercises and games.

CHDV 144  Exploring the Effects of Media on Young Children  (5)
½ hour lecture  
**Note:** Cross listed as COMM 144  
**Transfer acceptability:** CSU  
Explores the effects of media consumption on young children's social-emotional, physical, and cognitive development. Research behind the risks associated with television and computer use and popular culture saturation for young children, as well as benefits to development. Techniques for addressing media consumption with children, parents and families, and methods for effectively using media will be examined.

CHDV 145  Understanding Child Abuse and Family Violence  (3)
3 hours lecture  
**Transfer acceptability:** CSU  
Identity, prevent, report, assess, and intervene in cases of child abuse and neglect, domestic violence and community violence. Includes the history of child maltreatment, contemporary laws, mandated reporting, advocacy, and use of community services and agencies that pertain to abuse and neglect. Understanding familial and environmental factors that contribute to child abuse, as well as critical thought about prevention and intervention techniques.
CHDV 150  Advanced Administration and Management for Early Childhood Directors  
3 hours lecture  
Prerequisite: CHDV 100 and CHDV 115  
Recommended preparation: Currently teaching or supervising in a preschool or childcare setting  
Transfer acceptability: CSU  
Application of basic management principles in Child Development programs including state regulations, funding, budget preparation, and policy writing. Ethical concerns and professional development will be addressed. Partially fulfills the requirement for administration for the Site Supervisor and Program Director. Child Development Permits issued by the State of California Commission on Teaching Credentialing, and also meets Title 22 licensing regulations for directors.

CHDV 152A Environmental Rating Scale for Early Childhood Settings  
1.5 hours lecture  
Transfer acceptability: CSU  
An overview of the Environmental Rating Scale for early childhood settings (ECERS-3). Self-study and assessment methods for quality environments will be explored. Application of the rating scale will be emphasized.

CHDV 152B Environmental Rating Scale for Infant/Toddler Settings  
1.5 hours lecture  
Transfer acceptability: CSU  
An overview of the Environmental Rating Scale for infant/toddler settings (ITERS-R). Self-study and assessment methods for quality environments will be explored. Application of the rating scale will be emphasized.

CHDV 152C Environmental Rating Scale for Family Child Care  
1.5 hours lecture  
Transfer acceptability: CSU  
An overview of the Environmental Rating Scale for family child care settings (FCCERS). Self-study and assessment methods for quality environments will be explored. Application of the rating scale will be emphasized.

CHDV 152D Environmental Rating Scale for School Age Care  
1.5 hours lecture  
Transfer acceptability: CSU  
An overview of the Environmental Rating Scale for school-age care settings (SACERS). Self-study and assessment methods for quality environments will be explored. Application of the rating scale will be emphasized.

CHDV 155 Advanced Supervision for Early Childhood Directors  
3 hours lecture  
Prerequisite: CHDV 100 and CHDV 115  
Recommended preparation: Currently teaching or supervising in a preschool or childcare setting  
Transfer acceptability: CSU  
Application of supervisory techniques that generate productive staff supervision in early childhood settings, including staff motivation, staff benefits, team building, leadership skills, and situational leadership. Partially fulfills the requirement for administration for the Site Supervisor and Program Director. Child Development Permits issued by the State of California Commission on Teacher Credentialing, and also meets Title 22 licensing regulations for directors.

CHDV 172 Teaching in a Diverse Society  
3 hours lecture  
Transfer acceptability: CSU  
C-ID ECE 230  
Examines the development of social identities in diverse societies including theoretical and practical implications affecting young children, families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Social and emotional learning and conflict resolution is explored as a part of this process. Involves self-reflection of one's own understanding of educational principles in integrating bias in order to better inform teaching practices and/or program development. Examines issues of diversity in areas including, but not limited to: race, ethnicity, gender, ability, family structure, sexuality, and religion.

CHDV 174 Policies, Politics, and Ethics in Child Development  
1 hour lecture  
Transfer acceptability: CSU  
This course provides an overview of professional standards in the child development field. Policies and ethics for working with children, families, and communities are explored in view of changing political times and how professionals are affected and influenced by these changes. The course overviews the steps needed to become effective advocates on behalf of children and families.

CHDV 180 School-Age Development  
3 hours lecture  
Transfer acceptability: CSU  
Designed to prepare students to work in educational and childcare settings, by focusing on the development of children ages 5 through 12. Students will study developmental theories and the practical implications of these theories when working with the school-aged child. Licensing regulations for Title 5 and 22 programs will be explored.

CHDV 185 Introduction to Curriculum  
3 hours lecture  
Recommended preparation: A minimum of 12 Child Development units  
Transfer acceptability: CSU  
C-ID ECE 130  
Presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher's role in supporting development and engagement for all young children. Provides strategies for developmentally-appropriate practice based on observation and assessments across the curriculum, including pedagogical philosophies, curricular content areas, play and creativity, guidance, and development of social-emotional, communication, and cognitive skills.

CHDV 190 Curriculum for the School-Age Child  
3 hours lecture  
Transfer acceptability: CSU  
A survey of programs and activity planning for school-age children (5-12), including both before and after school curriculum and activities for groups and individuals of various developmental levels in the school-age range.

CHDV 195 Adult Supervision/Mentor Teacher Preparation  
3 hours lecture  
Prerequisite: A minimum grade of “C” in CHDV 100, and 115, completion of, or concurrent enrollment in CHDV 152A or CHDV 152B or CHDV 152C or CHDV 152D  
Recommended Preparation: Currently teaching in a preschool or child care setting in the role of lead teacher, head teacher, or other supervisory capacity  
Transfer acceptability: CSU  
Methods and principles of supervising student teachers in early childhood classrooms. Emphasizes the role of the experienced classroom teacher who functions as a mentor to new teachers while simultaneously addressing the needs of children, parents, staff and community resources. Students study effective models for guidance and evaluation of adults, positive communication skills, and the role of the mentor in a teaching environment. This course is designed for students who plan to supervise other adults in the early childhood classroom. This course is required for the levels of Master Teacher, Site Supervisor, and Program Director for the Child Development Permit issued by the State of California Commission on Teacher Credentialing.
CHDV 197A Child Development Workshop: Cultural and Social Arts (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Pass/No Pass grading
Transfer acceptability: CSU
Workshop to provide updates in knowledge and skills related to cultural arts for use in child development applications. Topics could include, but are not limited to, curriculum, materials and environments, and play. May include current and historical information related to cultural arts in relation to child development.

CHDV 197B Child Development Workshop: Health, Safety, and Nutrition (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Pass/No Pass grading
Transfer acceptability: CSU
Workshop will provide current knowledge and skills in topics related to the health, safety, and/or nutrition of young children. Topics may include, but are not limited to: infant, child, and adolescent health, safety, and/or nutrition; food service; communicable disease transmission and prevention; pediatric CPR and first aid; injury control; outdoor environments; physical fitness; childhood obesity; child mental health and social and behavioral wellness. May include speakers, seminars, and in service training in current aspects of child development.

CHDV 197C Child Development Workshop: Professional Development in Early Childhood Education (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Pass/No Pass grading
Transfer acceptability: CSU
Workshop will provide current knowledge and skills related to professional education for early childhood educators and administrators, which includes speakers, seminars, and in service training in current aspects of child development.

CHDV 197D Child Development Workshop: Parenting Topics (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Pass/No Pass grading
Transfer acceptability: CSU
Workshop to provide skills and education in parenting. Topics may include, but are not limited to: family development and structure, communication and problem solving, co-parenting, divorce, rhythm and routines, guidance, and/or parenting styles. Upon approval, workshops in this area may satisfy court-mandated parenting requirements.

CHDV 201 Practicum in Early Childhood Education (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CHDV 105 and CHDV 115, completion of or concurrent enrollment in CHDV 185
Note: Students taking CHDV 201 should be in the last year of their Child Development program.
Corequisite: CHDV 105A, CHDV 105B or CHDV 105C
Transfer acceptability: CSU
C-ID ECE 210
Students will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of Palomar College ECE Lab School or a designated site with a mentor teacher approved by the California Early Childhood Mentor Program, upon placement by the Child Development department. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children.

CHDV 202 Advanced Practicum in Early Childhood Education: Preschool (3)
2 hours lecture - 3 hours laboratory
Prerequisite: Completion of CHDV 201 and a minimum grade of ‘C’ or concurrent enrollment in CHDV 99, CHDV 104, CHDV 105A, CHDV 120, CHDV 152A, and CHDV 108, or CHDV 110, or CHDV 125, or CHDV 130, or CHDV 135, or CHDV 140, or CHDV 142, or CHDV 144/COMM 144
Transfer acceptability: CSU
Building on skills developed in CHDV 201, students will be further prepared to teach in various types of preschool programs, with children 3-5 years old. Students will create and implement developmentally appropriate lesson plans, curriculum planning, instructional methods, observational methods, guidance techniques, and activities for young children in a supervised preschool/early childhood teaching experience at Palomar College Child Development Centers or at a designated site with a mentor teacher approved by the California Early Childhood Mentor Program.

CHDV 203 Advanced Practicum in Early Childhood Education: Infant/Toddler (3)
2 hours lecture - 3 hours laboratory
Prerequisite: Completion of CHDV 201 and a minimum grade of ‘C’ or concurrent enrollment in CHDV 99, CHDV 103, CHDV 104, CHDV 105B, CHDV 106, CHDV 120, CHDV 142, CHDV 152B, and CHDV 101, or CHDV 108, or CHDV 110, or CHDV 125, or CHDV 130, or CHDV 135, or CHDV 140, or CHDV 144/COMM 144, or CHDV 145
Transfer acceptability: CSU
Building on skills developed in CHDV 201, students will be further prepared to teach in various types of infant/toddler programs with children 0-36 months old. Students will create and implement developmentally appropriate lesson plans, curriculum planning, instructional methods, observational methods, guidance techniques, and activities for young children in a supervised infant/toddler early childhood teaching experience at Palomar College Child Development Centers or at a designated site with a mentor teacher approved by the California Early Childhood Mentor Program.

CHDV 204 Advanced Practicum in Early Childhood Education: Inclusive Setting (3)
2 hours lecture - 3 hours laboratory
Prerequisite: Completion of CHDV 201 and a minimum grade of ‘C’ or concurrent enrollment in CHDV 99, CHDV 103, CHDV 104, CHDV 105C, CHDV 110, CHDV 112, CHDV 120, CHDV 152A or CHDV 152B, and CHDV 101, or CHDV 102, or CHDV 106, or CHDV 108, or CHDV 142, or CHDV 145, or CHDV 172
Transfer acceptability: CSU
Building on skills developed in CHDV 201, students will be further prepared to teach in various types of inclusive early childhood programs. Students will create and implement developmentally appropriate lesson plans, curriculum planning, instructional methods, observational methods, guidance techniques, and activities for young children with identified needs in a supervised inclusive early childhood teaching experience at Palomar College Child Development Centers or at a designated site with a mentor teacher approved by the California Early Childhood Mentor Program.
CHDV 205 Internship in Child and Family Services (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CHDV 100, 115 and 105
Transfer acceptability: CSU
Students will practice and demonstrate the theories and techniques of their discipline in an internship position in a professional setting under the instruction of a faculty member and an internship supervisor. Students will make connections between theory and practice, develop professional behaviors and increase their understanding of children and families. This course introduces the students to aspects of the roles and responsibilities of professional employment in the field of study. Course topics include goal setting, employability skills development, and examination of the world of work as it relates to the student’s career plans in child and family services. Students will work with agencies that serve families with children under the age of 18. Students may not be financially reimbursed for this internship experience.

CHDV 295 Directed Study in Child Development (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in child development subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Chinese (CHIN)
Contact the World Languages Department for further information.
760-744-1150, ext. 2390
Office: H-201

COURSE OFFERINGS

For students who have completed foreign language course work at the high school level, and need clarification regarding placement in college level course work, contact the Counseling Center. Universities have varying policies regarding the granting of transfer credit when there is a combination of high school and college level course work.

CHIN 101 Chinese I (5)
5 hours lecture - 1 hour laboratory
Transfer acceptability: CSU; UC
This course is the first semester of Chinese. This elementary level course is a study of the Chinese language and Chinese-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory. This beginning-level course is for students with no previous coursework in Chinese.

CHIN 102 Chinese II (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in CHIN 101 or two years of high school Chinese
Transfer acceptability: CSU; UC
This course is the second semester of Chinese. This elementary level course is a study of the Chinese language and Chinese-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction with self-paced study in the Foreign Language Laboratory.

CHIN 197 Chinese Topics (5-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Topics in Chinese. See Class Schedule for specific topic offered. Course title will designate subject covered.

CHIN 201 Chinese III (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in CHIN 102 or three years of high school Mandarin Chinese
Transfer acceptability: CSU; UC
This course is the third semester of Mandarin Chinese. This intermediate level course is a study of the Chinese language and Chinese-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Chinese. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in Chinese.

Cinema (CINE)
See also Digital Broadcast Arts and Journalism
Contact the Media Studies Department for further information.
760-744-1150, ext. 2440
Office: P-31
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
For transfer information, consult a Palomar College Counselor.

PROGRAM OF STUDY

Cinema (AA, CA)
Provides the theory and practice necessary for work in the field of filmmaking.

A.A. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 100</td>
<td>Art of the Cinema</td>
<td>3</td>
</tr>
<tr>
<td>CINE 102</td>
<td>History of Film to 1945</td>
<td>3</td>
</tr>
<tr>
<td>CINE 103</td>
<td>History of Film 1945-Present</td>
<td>3</td>
</tr>
<tr>
<td>CINE 105</td>
<td>Film Subjects</td>
<td>3</td>
</tr>
<tr>
<td>CINE 120</td>
<td>Film Criticism</td>
<td>3</td>
</tr>
<tr>
<td>CINE/DBA 125</td>
<td>Beginning Single Camera Film and Video Production</td>
<td>3</td>
</tr>
<tr>
<td>CINE/DBA 225</td>
<td>Intermediate Film and Video Field Production</td>
<td>3</td>
</tr>
<tr>
<td>DBA/CINE 115</td>
<td>Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>CINE 122</td>
<td>Identity in American Film</td>
<td>3</td>
</tr>
<tr>
<td>CINE 296</td>
<td>Special Projects</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>DBA 110</td>
<td>Broadcast and Media Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS

27

COURSE OFFERINGS

CINE 100 Art of the Cinema (3)
3 hours lecture
Transfer acceptability: CSU; UC
This course is an aesthetic study of film. It examines the broad questions of form and content, aesthetics and meaning, and history and culture. Weekly film screenings will investigate the use of symbolism, characterization, imagery, and uses of realism and fantasy in motion pictures. Analysis of significant films will be in terms of thematic coherence, structural unity, technical achievement, and visual beauty. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis. Also explored is how the film business influences cinema as an art form.
CINE 102  History of Film to 1945  
3 hours lecture  
Transer acceptability: CSU; UC  
A survey of the development of the motion picture as an art form and cultural phenomenon from its inception to the end of World War II, including early inventors, pioneers of cinematic grammar, and major film movements such as German Expressionism, Soviet Montage, and the golden age of the American studio system. Films are regularly screened in the classroom.

CINE 103  History of Film 1945-Present  
3 hours lecture  
Transer acceptability: CSU; UC  
A survey of the development of the motion picture as an art form and cultural phenomenon from the end of World War II to the present day, including major film movements such as Italian Neorealism, Film Noir, the French New Wave, and the American Renaissance of the 1960s-70s. Films are regularly screened in the classroom.

CINE 105  Film Subjects  
3 hours lecture  
Transer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus  
A study of selected motion picture themes such as women in films, the western, the films of Hitchcock/Chabrol. Check the Class Schedule each semester for the particular subject.

CINE 110  Documentary Film  
3 hours lecture  
Transer acceptability: CSU  
A study of the complete spectrum of documentary film including actualities, travel records, political propaganda, newsreels, historical, ethnographic, and archival films and those that make a personal poetic statement. The contributions of important filmmakers including Ken Burns, Robert Flaherty, John Grierson, Barbara Kopple, Ricky Leacock, Albert and David Maysles, Michael Moore, D.A. Pennebaker, and Frederick Wiseman will be discussed. Significant films from the beginning of film to the present will be screened.

CINE 115  Creative Writing for Television and Cinema  
3 hours lecture  
Note: Cross listed as DBA 115  
Transer acceptability: CSU  
Instruction and practice in the art of dramatic script writing. Emphasis is placed on the development of the initial story idea into a viable, professional shooting script for TV or film.

CINE 120  Film Criticism  
3 hours lecture  
Transer acceptability: CSU; UC  
Film criticism refers to the serious and detailed analysis of film. Several critical approaches, i.e. auteur, genre, realism, feminism, will be studied and used to analyze film. These approaches explore film and its meaning through the historical development of the medium, from filmmaking’s technical components, by relating a film or group of films to the social and cultural environment of the time, by focusing on the work in terms of its emotional and psychological impact on the viewer and how it is influenced by the nature of the film industry and financial considerations. We will recognize the collaborative nature of the medium as well as the significance of the individual artist to a particular film or group of films. Films will be screened weekly in class.

CINE 122  Identity in American Film  
3 hours lecture  
Transer acceptability: CSU; UC  
A critical study of how American identity is formed in relation to American cinema. Areas of investigation include race, class, gender, sexual orientation, age, and ethnicity. Screening and analysis of films will be undertaken to investigate how select films reflect, celebrate, modify, and criticize mainstream American values. Off campus programs may be required.

CINE 123  Queer Cinema  
3 hours lecture  
Transer acceptability: CSU; UC  
A study of how historical and cultural conditions have shaped the cinema’s depictions of gay men, lesbians, bisexuals, and the transgendered, and how these “queer” subjects and communities have responded through viewing practices and alternative film and video production.

CINE 125  Beginning Single Camera Film and Video Production  
1 ½ hours lecture - 4 ½ hours laboratory  
Recommended preparation: CINE 100 or DBA 100L  
Note: Cross listed as DBA 125  
Transer acceptability: CSU; UC – CINE/DBA 125 and 225 combined: maximum credit, one course  
This course provides an introduction to the theory, terminology, and operation of single camera film and video production as it applies to narrative storytelling for film and television. Areas of study include basic elements of screenwriting and production design, cinematography including camera operation, digital video and audio recording and basic editing techniques. It focuses on the aesthetics and fundamentals of scripting, producing, directing on location, postproduction and exhibition/distribution. Students may shoot on Super 8mm, 16mm film or digital video.

CINE 170  Introduction to Video Editing  
1 ½ hours lecture - 4 ½ hours laboratory  
Note: Cross listed as DBA 170; may not be taken for Pass/No Pass grading  
Transer acceptability: CSU  
Covers the technical and theoretical aspects of film and video editing. Provides an introduction to the basic techniques, elements of editing language, the various technical processes used, introduction to Final Cut Pro software, as well as the related skills necessary for editing digital media.

CINE 225  Intermediate Single Camera Film and Video Production  
1 ½ hours lecture - 4 ½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in CINE/DBA 125  
Note: Cross listed as DBA 225  
Transer acceptability: CSU; UC – CINE/DBA 125 and 225 combined: maximum credit, one course  
This course goes beyond the basics to provide a more extensive study of the theory, terminology, and operation of single camera film and video production as it applies to narrative and documentary film and television. Topics include basic cinematography including the operation, function and creative uses of production and post-production equipment, scriptwriting, camera operation, shot composition, lighting, sound recording and mixing, and editing. Students may shoot on Super 8mm, 16mm film or digital video.

CINE 270  Digital Video Editing  
1 ½ hours lecture - 4 ½ hours laboratory  
Note: Cross listed as DBA 270  
Note: May not be taken for Pass/No Pass grading  
Transer acceptability: CSU  
Principles and techniques of digital non-linear video editing for broadcast TV and film. Overview of Adobe Premiere software program. Application of professional operational and aesthetic editing principles.

CINE 275  Avid Editing for Television and Film  
1 ½ hours lecture - 4 ½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in DBA 270  
Note: Cross listed as DBA 275  
Note: May not be taken for Pass/No Pass grading  
Transer acceptability: CSU  
Principles and techniques of editing video and film projects using Avid technology. Digitizing source material, storyboarding, timeline, audio editing, importing and exporting graphics, outputting, and media management.
Communications (COMM)
See also Cinema, Digital Broadcast Arts, and Journalism

Contact the Media Studies Department for further information.
760-744-1150, ext. 2440
Office: P-31
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages). For transfer information, consult a Palomar College Counselor.

PROGRAM OF STUDY

Public Relations (CP)
This certificate includes a selection of courses that provides academic preparation to individuals who are seeking employment, or are currently employed, in public relations. Major growth in this industry is anticipated.

CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>COMM 104</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 149</td>
<td>3</td>
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<tr>
<td>JOUR 101</td>
<td>3</td>
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<tr>
<td>JOUR 105</td>
<td>3</td>
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<tr>
<td>ENT/DBA 120</td>
<td>3</td>
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COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMM 100</td>
<td>Introduction to Public Relations</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture</td>
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</tr>
<tr>
<td>C-ID JOUR 100</td>
<td>Page Design and Design I</td>
<td>3</td>
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<tr>
<td></td>
<td>A multi media approach to a comparative survey of communication in studying the history, structure, economic and social impact of television, cinema, radio, journalism, Internet and new forms of communication.</td>
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<tr>
<td>COMM 104</td>
<td>Introduction to Public Relations</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture</td>
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<td></td>
<td>Transfer acceptability: CSU</td>
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<tr>
<td></td>
<td>C-ID JOUR 150</td>
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<tr>
<td></td>
<td>A survey of public relations history, theories, and practices with emphasis on applications to business, public agencies and institutions. A practical approach to using the media, creating press releases, organizing and executing campaigns, and promoting favorable relations with various segments of the public.</td>
<td></td>
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<tr>
<td>COMM 105</td>
<td>Race, Gender and Media Effects</td>
<td>(3)</td>
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<tr>
<td></td>
<td>3 hours lecture</td>
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<tr>
<td></td>
<td>Transfer acceptability: CSU</td>
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<tr>
<td></td>
<td>C-ID JOUR 150</td>
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<tr>
<td></td>
<td>An analysis of the changing social and ethical issues that confront both our mass communication systems and the public. The media's role in reflecting, creating, and controlling human values, both personal and social. Examination of images of women, African-Americans, Native Americans, Asian-Americans, and Latinos in the mass media and their sociological consequences.</td>
<td></td>
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<tr>
<td>COMM 144</td>
<td>Exploring the Effects of Media on Young Children</td>
<td>(.5)</td>
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<tr>
<td></td>
<td>.5 hour lecture</td>
<td></td>
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<tr>
<td></td>
<td>Note: Cross listed as CHDV 144</td>
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<td></td>
<td>Transfer acceptability: CSU</td>
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</tr>
</tbody>
</table>

Computer Science and Information Technology - Computer Science (CSCI)
See also CSIT - Information Technology, CSNT - Networking, and CSWB - Web Technology

Contact the Computer Science and Information Technology Department for further information.
760-744-1150, ext. 2387
Office: MD-375
http://www.palomar.edu/csit
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Computer Science (AS, CA)
Computer Science is the study and design of computer systems: both hardware and software. Computer scientists are primarily concerned with the design of algorithms, languages, hardware architectures, systems software, applications software and tools. Emphasis in the Computer Science program is placed on the ability to solve problems and think independently. The program offers a foundation in data structures, computer architecture, software design, algorithms, programming languages, and object-oriented programming. See a Counselor for additional university transfer requirements in this major.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 112</td>
<td>Programming Fundamentals I</td>
</tr>
<tr>
<td>CSCI 114</td>
<td>Programming Fundamentals II</td>
</tr>
<tr>
<td>CSCI 210</td>
<td>Data Structures</td>
</tr>
<tr>
<td>CSCI 212</td>
<td>Machine Organization and Assembly Language</td>
</tr>
<tr>
<td>CSCI 222</td>
<td>C++ and Object-Oriented Programming</td>
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<tr>
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Electives (Select 2 courses)

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<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>CSCI 130</td>
<td>Linux Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 230</td>
<td>Java GUI Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 235</td>
<td>Android Development</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 260</td>
<td>Video Game Programming I</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 275</td>
<td>iOS Development</td>
<td>3</td>
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<tr>
<td>MATH 245</td>
<td>Discrete Mathematics</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>TOTAL UNITS 26</strong></td>
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</tbody>
</table>

Computer Science with Emphasis in Video Gaming (AS, CA)
Computer Science is the study and design of computer systems: both hardware and software. Computer scientists are primarily concerned with the design of algorithms, languages, hardware architectures, systems software, applications software and tools. Emphasis in the Computer Science program is placed on the ability to solve problems and think independently. The program offers a foundation in data structures, computer architecture, software design, algorithms, programming languages, and object-oriented programming. This program also introduces students to the video game industry, video game design and programming. See a Counselor for additional university transfer requirements in this major.
A.S. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>CSCI 112</td>
<td>Programming Fundamentals I</td>
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</tr>
<tr>
<td>CSCI 114</td>
<td>Programming Fundamentals II</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 160</td>
<td>Overview of the Video Game Industry</td>
<td>4</td>
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<tr>
<td>CSCI 161</td>
<td>Video Game Design</td>
<td>4</td>
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<tr>
<td>CSCI 210</td>
<td>Data Structures</td>
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<tr>
<td>CSCI 212</td>
<td>Machine Organization and Assembly Language</td>
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<tr>
<td>CSCI 222</td>
<td>C++ and Object-Oriented Programming</td>
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<tr>
<td>CSCI 260</td>
<td>Video Game Programming I</td>
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</table>

TOTAL UNITS 31

Video Game Developer (CP)

The Video Game Developer certificate program introduces students to the video game industry, video game design and programming.

CERTIFICATE OF PROFICIENCY

Program Requirements

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CSCI 160</td>
<td>Overview of the Video Game Industry</td>
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<tr>
<td>CSCI 161</td>
<td>Video Game Design</td>
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<tr>
<td>CSCI 260</td>
<td>Video Game Programming I</td>
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</tr>
<tr>
<td>CSCI 261</td>
<td>Video Game Programming II</td>
<td>3</td>
</tr>
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</table>

TOTAL UNITS 14

COURSE OFFERINGS

CSCI 112 Programming Fundamentals I (4)
3½ hours lecture - 1½ hours laboratory
Transfer acceptability: CSU; UC
C-ID COMP 122
Introduction to the basic concepts of Computer Science, the fundamental techniques for problem solving, and the software development process. Includes the syntax and semantics of the C programming language focusing on basic control structures, data types, and input/output.

CSCI 114 Programming Fundamentals II (4)
3½ hours lecture - 1½ hours laboratory
Prerequisite: A minimum grade of "C" in CSCI 112
Transfer acceptability: CSU; UC
Object-oriented programming in Java, focusing on classes, instances, methods, interfaces, encapsulation, overloading, file I/O, inheritance, polymorphism, and exception handling.

CSCI 130 Linux Fundamentals (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
An introduction to fundamental end-user skills and tools in Linux, designed for students with little or no command-line Linux or UNIX experience. Emphasis on shell script programming to create tools, applications and to automate routine functions.

CSCI 146 FORTRAN 90 for Mathematics and Science (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in MATH 135 or MATH 110 and 115, or a passing grade on the appropriate placement test
Note: Cross listed as MATH 146
Transfer acceptability: CSU; UC
Programming in FORTRAN 90 to solve typical problems in mathematics, computer science, physical sciences, and engineering. Programming is done on a PC.

CSCI 160 Overview of the Video Game Industry (4)
4 hours lecture
Transfer acceptability: CSU
Survey of the historical, technological, business, social and psychological aspects of the video game industry. Intended for those considering a career in the video game industry, or those with a strong interest in video games and how they are made.

CSCI 161 Video Game Design (4)
4 hours lecture
Transfer acceptability: CSU
An introduction to video game design, including the study of various genres of games, and the preparation of a game design document. Intended for those considering a career in the video game industry, or those with a strong interest in video games and how they are made.

CSCI 197 Topics in Computer Science (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Topics in Computer Science. See class schedule for specific topic offered. Course title will designate subject covered.

CSCI 210 Data Structures (4)
3½ hours lecture - 1½ hours laboratory
Prerequisite: A minimum grade of "C" in CSCI 114
Transfer acceptability: CSU; UC
C-ID COMP 132
A systematic study of data structures, including arrays, stacks, recursion, queues, linear and non-linear linked lists, binary trees, hashing, comparative study of searching and sorting algorithms, graphs, Huffman codes, introductory analysis of algorithms, introduction to the complexity of algorithms including big ”O” notation, time and space requirements, and object-oriented design of abstract data types. Focus on object-oriented programming and its principles of objects, classes, encapsulation, inheritance and its relationship to the Java programming language. Includes hands-on laboratory experience reinforcing the lecture material.

CSCI 212 Machine Organization and Assembly Language (4)
3½ hours lecture - 1½ hours laboratory
Prerequisite: A minimum grade of "C" in CSCI 114
Transfer acceptability: CSU; UC
C-ID COMP 142
An introduction to Assembly Language programming. Language syntax is covered, together with a study of the instruction set mnemonics, segment, index, pointer, general purpose and flag registers. A variety of memory addressing techniques will be covered, as well as stack operations, particularly those associated with passing parameters to subroutine calls. Also includes I/O to screen, printer, and disk interfaces. Emphasis will be placed on interaction between the student's code and the operating system's supplied functions for I/O to peripheral devices. Use of editor and debugging tools will also be addressed.

CSCI 222 C++ and Object Oriented Programming (4)
3½ hours lecture - 1½ hours laboratory
Prerequisite: A minimum grade of "C" in CSCI 114
Transfer acceptability: CSU; UC
Detailed study of the C++ programming language and its support for data abstraction and object-oriented programming. Presents an introduction to the fundamental elements of object-oriented programming including encapsulation, classes, inheritance, polymorphism, templates, and exceptions.
CSCI 230  Java GUI Programming  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in CSCI 114
Transfer acceptability: CSU
Graphical User Interface programming using Java. Emphasizing event-driven programming and the code to create GUI components such as buttons, text area, scrollable views. Includes hands-on laboratory experience reinforcing the lecture material.

CSCI 235  Android Development  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in CSCI 114
Transfer acceptability: CSU
Applied Java programming to mobile Android phones utilizing the Android Software Development Kit (SDK). Assignments and programs will specifically address the basic aspects of developing applications using the Android SDK.

CSCI 260  Video Game Programming I  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in CSCI 222
Transfer acceptability: CSU
Introduction to the programming of video games. Course will explore 3D game development with the current version of DirectX. Students learn how to create 3D games as well as the basics of designing and using a 3D engine. Includes hands-on laboratory experience reinforcing the lecture, text, and course materials.

CSCI 261  Video Game Programming II  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in CSCI 222
Transfer acceptability: CSU
Builds on basic 3D game programming skills acquired during Video Game Programming I. Focuses on sound, input, networking and methods such as artificial intelligence to drive these games. Includes hands-on laboratory experience reinforcing the lecture, text and course materials.

CSCI 275  iOS Development  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in CSCI 114
Transfer acceptability: CSU
Focus on the Swift programming language and the tools and APIs required to build applications for the iOS platform. Includes user interface designs for iOS mobile devices and unique user interactions using multitouch technologies.

CSCI 295  Directed Study in Computer Science  (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus
Designed for the student who has demonstrated a proficiency in computer science subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

Computer Science and Information Technology - Information Technology (CSIT)
See also CSCI - Computer Science
CSNT - Networking, and CSWB - Web Technology
Contact the Computer Science and Information Technology Department for further information.
760-744-1150, ext. 2387
Office: MD-275
http://www.palomar.edu/csit
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Computer Information Systems:
Emphasis Data Analytics (AS, CA)

Computer Information Systems (CIS) is a series of courses that bind both technology and business to produce quality information for an organization. CIS emphasizes the technology side of an organization’s information system. Typical employment opportunities include computer support specialist, user support specialist, systems analyst, data analyst, database administrators, software testers and application development.

Key areas of focus in this degree are: Computer Information Systems; Computer Programming; Systems Analysis and Design; System Development; Database Management; Social Media; and Data Modeling and Computational Intelligence.

Students planning to focus on technology and computing in Information Systems are recommended to earn an A.S. in Computer Information Systems. This degree is ideal for students eager to break into the field of computing by earning a career technical certificate or degree while completing transferable coursework.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
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<td>Computer Information Systems</td>
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<tr>
<td>CSIT 146</td>
<td>Systems Analysis and Design</td>
<td>3</td>
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<td>CSIT 150</td>
<td>Introduction to SQL</td>
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<td>CSIT 225</td>
<td>Computational Intelligence and Data Analytics</td>
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<td>CSIT 226</td>
<td>Dashboards and Data Visualization</td>
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<td>CSIT 230</td>
<td>Data Modeling &amp; Programming for MS Office</td>
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<td>MATH 120</td>
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Group One (Choose 1)

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<td>CSIT 180</td>
<td>C# Programming I</td>
<td>3</td>
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<tr>
<td>CSWB 180</td>
<td>Python Programming</td>
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<td>CSCI 112</td>
<td>Programming Fundamentals I</td>
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Group Two (Choose 1)

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<tr>
<td>CSWB 110</td>
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<tr>
<td>JOUR 200</td>
<td>Mastering Social Media</td>
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<td>BUS 152</td>
<td>Social Media for Business</td>
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<tr>
<td>CSIT 165</td>
<td>R Programming</td>
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TOTAL UNITS 27 - 28

Information Technology (AS, CA)

This program prepares students for employment in information systems applications development in business and industry. The focus is on developing skills in programming languages, Internet, spreadsheets, databases, presentation graphics, word processing, and database design. See a counselor for additional university transfer requirements in this major.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<td>CSIT 125</td>
<td>Computer Information Systems</td>
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<td>CSIT 150</td>
<td>Introduction to SQL</td>
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<td>CSIT 180</td>
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<td>CSIT 280</td>
<td>C# Programming II</td>
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<tr>
<td>CSWB 110</td>
<td>Web Site Development with HTML5/CSS3</td>
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<tr>
<td>CSWB 120</td>
<td>JavaScript and jQuery</td>
<td>3</td>
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</table>
Management Information Systems (AS, CA)

Management Information Systems (MIS) is a series of courses that link business and technology to produce quality information for an organization. MIS professionals focus on the business side of Information Systems (IS). An MIS professional utilizes computer information to facilitate the decision-making of managers. Key areas of focus in this degree are: Business Communications; Accounting; Economics; Business Law; Statistics; Mathematics; Computer Information Systems; Computer Programming; Systems Analysis and Design, Database Management Systems, Data Communications, and Security.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
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<tr>
<th>Program Requirements</th>
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<td>Computer Concepts and Applications 3</td>
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<td>CSIT 125</td>
<td>Computer Information Systems 3</td>
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<td>BUS 117</td>
<td>Legal Environment of Business 3</td>
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<td>BUS 204</td>
<td>Quantitative Business Analysis 4</td>
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<td>Elementary Statistics 4</td>
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<tr>
<td>PSYC/SOC 205</td>
<td>Statistics for the Behavioral Sciences 4</td>
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<tr>
<td>BUS 205</td>
<td>Business Communication 3</td>
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<td>MATH 130</td>
<td>Calculus for Business and the Social Sciences 4</td>
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<td>Financial Accounting 4</td>
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<td>ACCT 202</td>
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<td>Principles of Economics (Macro) 3</td>
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<td>ECON 102</td>
<td>Principles of Economics (Micro) 3</td>
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<td>CSIT 145</td>
<td>Introduction to Programming Concepts and Methodologies 3</td>
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<tr>
<td>CSIT 148</td>
<td>C Programming using Robots 3</td>
</tr>
<tr>
<td>CSIT 160</td>
<td>Oracle Database Management Systems 3</td>
</tr>
<tr>
<td>CSIT 180</td>
<td>C# Programming 3</td>
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<td>CSNT 111</td>
<td>Networking Fundamentals 3</td>
</tr>
<tr>
<td>CSWB 110</td>
<td>Web Site Development with HTML/SS CSS3 3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 36-38

COURSE OFFERINGS

CSIT 105 Computer Concepts and Applications (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU; UC - no credit if taken after CSCI 108 or 110
C-ID ITIS 120
The study of computer concepts and basic proficiency in modern application software. Computer concepts will focus on basic terminology; computer literacy; information literacy; hardware; software; information systems; state-of-the-art technology; structured design techniques, overview of the computer industry; ethics and current issues including virus protection and prevention. Hands-on introduction to Windows operating system and application software including basic proficiency of the Internet; browsers and e-mail. The Microsoft Office Suite will be taught using Word, Excel, Access and PowerPoint.

CSIT 120 Computer Applications (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Hands-on experience with microcomputers and microcomputer applications featuring the use of Windows, word processing, spreadsheet, database, and presentation graphics software. The Microsoft Office Suite will be taught using Word, Excel, Access and PowerPoint.

CSIT 125 Computer Information Systems (3)
2 hours lecture - 3 hours laboratory
Recommended Preparation: CSIT 105
Transfer acceptability: UC/CSU
C-ID ITIS 120
Examination of information systems and their role in business. Focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Application of these concepts and methods through hands-on projects developing computer-based solutions to business problems.

CSIT 145 Introduction to Programming Concepts and Methodologies (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
C-ID ITIS 130
An introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, logic, and fundamental design techniques for event-driven programs. Hands-on experience with a modern application programming language and development platform.

CSIT 146 Systems Analysis and Design (3)
(Formerly CSIT 290)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU; UC
Introduction to the planning, analysis, design and implementation of modern information systems. This course covers the concepts, skills, methodologies, techniques, tools, and perspectives essential for systems analysts to successfully develop information systems.

CSIT 148 C Programming using Robots (3)
2 hours lecture - 3 hours laboratory
Recommended Preparation: CSIT 105
Transfer acceptability: CSU
Introduction to Robotics and Robotic programming using RobotC and Lego Mindstorms. Focus will be fundamental problem solving skills, project management and planning, logic and design techniques while creating behavior-based, event-driven robotic programs in the C programming language.

CSIT 150 Introduction to SQL (3)
2½ hours lecture - 1½ hours laboratory
Transfer acceptability: CSU
Intended for individuals who want to learn how to search for and manipulate data in a database, create tables and indexes, handle security, control transaction processing, and learn the basics of how to design a database.
CSIT 160 Oracle Database Management Systems (3)  
2½ hours lecture - 1½ hours laboratory  
Transfer acceptability: CSU  
An introduction to relational database concepts including the design and creation of database structures using the Oracle Database Management System to store, retrieve, update and display data. Additionally, database management theories and ideas are covered using the Oracle Database Management System.

CSIT 165 R Programming (3)  
2 hours lecture - 3 hours laboratory  
Transfer acceptability: CSU  
Introduction to the R programming language. R is becoming the leading programming language and environment to assist data analyst, statisticians, and researchers develop statistical computing and graphics programs.

CSIT 170 Visual Basic I (3)  
2 hours lecture - 3 hours laboratory  
Transfer acceptability: CSU  
Design, create, test and run computer applications using Visual Basic. Emphasis is on learning the fundamentals of the Visual Basic Interface and how to solve problems using structured design logic and the sequence, decision and repetition procedural language control structure. Selected additional features of the Visual Basic Interface and procedural language are included to provide a foundation for the study of more advanced courses.

CSIT 180 C# Programming I (3)  
2½ hours lecture - 1½ hours laboratory  
Transfer acceptability: CSU, UC  
Provides the knowledge and skills necessary to use the C# programming language. Emphasis will be placed on application design, problem solving, logic, and programming for GUI and command driven programs. Focus will be on program development techniques and processes of the software development life cycle utilizing the C# programming language.

CSIT 225 Computational Intelligence and Data Analytics (3)  
2 hours lecture - 3 hours laboratory  
Transfer acceptability: CSU  
An introduction to the fundamental concepts of Computational Intelligence and Data Analytics. Computational Intelligence and Data Analytics are utilized to turn big data into useful information to enable educators, researchers, industry, and businesses to make better decisions. Examine the tools, applications, and processes including Analytics, Understanding Data, Data Warehousing, Big Data, Hadoop, Cloud Computing, and Data Visualization.

CSIT 226 Dashboards and Data Visualization (3)  
2 hours lecture - 3 hours laboratory  
Transfer acceptability: CSU  
Provides knowledge and skills necessary to develop analytics in Dashboards and Data Visualization technology. Tableau software will be utilized to implement the graphical Dashboards and Data Visualization.

CSIT 230 Data Modeling & Programming for MS Office (3)  
2 hours lecture - 3 hours laboratory  
Recommended Preparation: CSIT 125  
Transfer acceptability: CSU  
A systematic study of data modeling to assist data scientist, educators, researchers to unlock the skills of computational intelligence. Development in Excel along with current programming tools such as Visual Basic, Power BI, Power Pivot and DAX will be utilized.

CSIT 280 C# Programming II (3)  
2½ hours lecture - 1½ hours laboratory  
Prerequisite: A minimum grade of "C" in CSIT 180  
Transfer acceptability: CSU, UC  
Provides intermediate-level knowledge and skills necessary to use the C# programming language. Topics include language syntax, data types, operators, exception handling, casting, string handling, data structures, collection classes and delegates. Programming of windows-based applications is presented along with object-oriented programming that includes classes, methods, polymorphism and inheritance. Event-driven programming is discussed along with the C# development and execution environment.

CSIT 295 Directed Study in Information Technology (1, 2, 3)  
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson/director  
Transfer acceptability: CSU, UC - Credit determined by UC upon review of course syllabus.  
Designed for the student who has demonstrated a proficiency in Information Technology subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

Computer Science and Information Technology - Networking (CSNT)  
See also CSCI - Computer Science  
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Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Computer Network Administration with Emphasis: Cisco (AS, CA)  
This program prepares the student for employment in the field of Computer Networking. The focus is on developing skills in a combination of the fundamental and basic network technologies produced by Cisco. Specific learning outcomes include developing team dynamics in the following skills: Network Media Installation, LAN and WAN Design, Network Management, Fundamentals of Networking Devices, Client Hardware Repair, Network Operating Systems Installation and Configuration, Networking Device Operating Systems, Installation and Configuration, Client Operating Systems Installation and Configuration, Network Security, Remote Access, Routing Principles and Configuration, and Maintaining a Corporate Network.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements  

<table>
<thead>
<tr>
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<tr>
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<td>Hardware and O.S. Fundamentals</td>
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<td>CSNT 111</td>
<td>Networking Fundamentals</td>
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<tr>
<td>CSNT 160</td>
<td>Cisco Networking Fundamentals</td>
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<td>CSNT 161*</td>
<td>Cisco Router Configuration</td>
<td>3</td>
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<td>CSNT 260</td>
<td>Cisco Advanced Routing and Switching</td>
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<tr>
<td>CSNT 261</td>
<td>Cisco Wide Area Network Design and Support</td>
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<td>CSNT 180</td>
<td>Wireless Networking</td>
<td>3</td>
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<tr>
<td>CSNT 181</td>
<td>Hacker Prevention/Security</td>
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<tr>
<td>CSNT 280</td>
<td>Computer Forensics Fundamentals</td>
<td>3</td>
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</table>

TOTAL UNITS: 28

* Note: CSNT 160 is a prerequisite for CSNT 161
Computer Network Administration with Emphasis: Linux (AS, CA)

This program prepares the student for employment in the field of Computer Networking with an emphasis on the Linux Operating System. The focus is on developing skills in a combination of the network technologies produced by Linux/Unix. Specific learning outcomes include developing team dynamics in the following skills: Linux Operating System, Linux Administration and Security, Linux Scripting, Network Media Installation, LAN and WAN Design, Network Management, Fundamentals of Networking Devices, Client Hardware Repair, Network Operating Systems Installation and Configuration, Networking Device Operating Systems, Installation and Configuration, Client Operating Systems Installation and Configuration, Network Security, Remote Access, Routing Principles and Configuration, and Maintaining a Corporate Network. Linux will be the primary operating system learned.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<td>CSNT 140</td>
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Computer Network Administration with Emphasis: Microsoft (AS, CA)


A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<td>CSNT 280</td>
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<td>TOTAL</td>
<td>28</td>
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</table>

COURSE OFFERINGS

CSNT 110  Hardware and O.S. Fundamentals (4)
3½ hours lecture - 1½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 110 and 111
Transfer acceptability: CSU
Provides the knowledge and skills necessary to build a solid foundation in computer operating systems and networking. Includes P.C. hardware and operating system fundamentals; installation, configuration and upgrading; diagnosing and troubleshooting; preventative maintenance; motherboards, processors, and memory; printers; and basic networking including network operating systems. Maps to Comptia A+ Industry Exam.

CSNT 111  Networking Fundamentals (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 110
Transfer acceptability: CSU
Provides the knowledge and skills necessary to build a solid foundation in computer networking. Includes networking fundamentals, the OSI model, subnetting, features and functions of networking components, and the skills needed to install, configure, and troubleshoot basic networking hardware peripherals and protocols.

CSNT 120  Windows Client and Microsoft Office Deployment (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 110 and 111
Transfer acceptability: CSU
Provides the knowledge and skills necessary to install and configure Microsoft Windows Client (current version) on stand-alone computers and on client computers that are part of a network. Provides the knowledge and skills to deploy Microsoft Office.

CSNT 121  Windows Server (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 111
Transfer acceptability: CSU
Provides the knowledge and skills necessary to install, configure, and administer a Microsoft Windows Server (current version) in a Network. Typical network services and applications include file and print, database, messaging, proxy server or firewall, dial-in server, desktop management, and Web hosting.

CSNT 122  Windows Systems Administration (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 111. Completion of, or concurrent enrollment in CSNT 110
Transfer acceptability: CSU
Provides the knowledge and skills required to build, maintain, troubleshoot, and support server hardware and software technologies. Students will identify environmental issues; understand and comply with disaster recovery and physical/software security procedures; become familiar with industry terminology and concepts; understand server roles/specializations and interaction within the overall computing environment.

CSNT 124  Implementing a Microsoft Desktop Application Environment (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 121. Completion of, or concurrent enrollment in CSNT 121
Transfer acceptability: CSU
Provides the knowledge and skills necessary to design and prepare the desktop application environment. Design and implement a presentation virtualization environment, design and implement an application virtualization environment, deploy and manage the application environment, and design business continuity for the desktop and application environment.

CSNT 140  Linux Administration (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSCI 130
Transfer acceptability: CSU
For users of Linux (or UNIX) who want to start building skills in systems administration to a level where they can attach and configure a workstation on an existing network.
CSNT 141  Linux Networking and Security  (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 140
Transfer acceptability: CSU
A hands on introduction to important administration activities required to manage a Linux network configuration. Course will cover topics configuring TCP/IP, DNS, PPP, send mail, Apache Web Server and the firewall.

CSNT 160  Cisco Networking Fundamentals  (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 110
Recommended preparation: CSNT 111
Transfer acceptability: CSU
Emphasis on the OSI model and industry standards. Includes network topologies, IP addressing, subnet masks, basic network design and cable installation. This 70-hour course of instruction prepares the student for Cisco certification examination.

CSNT 161  Cisco Router Configuration  (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 160
Development of knowledge and skills to install, configure, maintain, and troubleshoot Cisco routers and components. This 70-hour course of instruction prepares the student for Cisco certification examination.

CSNT 180  Wireless Networking  (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 110, and CSNT 111 or CSNT 160
Transfer acceptability: CSU
Provides a hands-on guide to planning, designing, installing and configuring wireless LANs that prepares students for the Certified Wireless Network Administrator (CWNA) certification. In-depth coverage of wireless networks with extensive step-by-step coverage of IEEE 802.11 b/a/g/pre-n implementation, design, security, and troubleshooting. Material is reinforced with hands-on projects at the end of each chapter from two of the principal wireless LAN vendors, Cisco and Linksys.

CSNT 181  Hacker Prevention/Security  (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 110, and CSNT 111 or CSNT 160
Transfer acceptability: CSU
In-depth analysis and hands-on experience in PC and network security concepts specific to Microsoft, Unix-based and Cisco systems. Various topics including hacker prevention and intrusion detection, firewall installation and configuration, wireless network security, disaster recovery, access control lists, identification of malicious code, cryptography and forensics. Team dynamics in a lab environment, planning, installing, and configuring various network security elements regarding hardware, software, and media. Understand and demonstrate proper planning and implementation of a secure network, document and offer training to end-users, executives, and human resources on the proper maintenance of a secure network.

CSNT 260  Cisco Advanced Routing and Switching  (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 161
Transfer acceptability: CSU
Development of knowledge and skills to configure advanced routing protocols, Local Area Networks (LANs), and LAN switching. Design and management of advanced networks. This 70-hour course of instruction prepares the student for Cisco certification examination.

CSNT 261  Cisco Wide Area Network Design and Support  (3)
2½ hours lecture - 2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in CSNT 260
Transfer acceptability: CSU
Development of knowledge and skills to design and configure advanced Wide Area Network (WAN) projects using Cisco IOS command set. This 70-hour course of instruction prepares the student for Cisco certification examination.

CSNT 280  Computer Forensics Fundamentals  (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Introduces methods used to properly conduct a computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered include an overview of computer forensics as a profession; the computer investigation process; understanding operating systems boot processes and disk structures; data acquisition and analysis; technical writing; and a review of familiar computer forensics tools.

Contact the Computer Science and Information Systems Department for further information,
760-744-1150, ext. 2387
Office: MD-275
http://www.palomar.edu/csit
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

Web Design and Development
Web Design and Development is a series of courses that bind both Website Design and Website Programming to produce quality information for an organization. Web professionals that do both design and programming are generally employed in small-to-midsize businesses that need their employees to have a wide range of skills to implement a businesses Web presence.

Key areas of focus in this degree are: Web Page Design and Layout; Web Graphics; Design of Applications for Mobile Devices; Web Accessibility; HTML: Cascading Style Sheets (CSS); JavaScript/jQuery; Ajax, Social Media and server-side development languages, such as PHP or ASP.

A.S. DEGREE MAJOR OR
CERTIFICATE ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSWB 110</td>
<td>Web Site Development with HTML5/CSS3</td>
<td>3</td>
</tr>
<tr>
<td>CSWB 120</td>
<td>JavaScript and jQuery</td>
<td>3</td>
</tr>
<tr>
<td>CSWB 135</td>
<td>Advanced JavaScript and Mobile Apps</td>
<td>3</td>
</tr>
<tr>
<td>CSWB 150</td>
<td>PHP with MySQL</td>
<td>3</td>
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<tr>
<td>GCMW 102</td>
<td>Web Page Layout I</td>
<td>3</td>
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<tr>
<td>GCMW 112</td>
<td>Mobile Devices/Web Page Layout</td>
<td>2</td>
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<tr>
<td>GCMW 140</td>
<td>Web Graphics</td>
<td>3</td>
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<tr>
<td>GCMW 202</td>
<td>Web Page Layout II</td>
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<tr>
<td>GCMW 232</td>
<td>Web Accessibility Design</td>
<td>1</td>
</tr>
<tr>
<td>CSWB 280</td>
<td>Web Design and Development Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 30
Web Development

This program includes the Web page design and programming languages that allow a developer to build dynamic Web applications.

CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
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<th>Course Title</th>
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<td>3</td>
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<tr>
<td>CSWB 150</td>
<td>PHP with MySQL</td>
<td>3</td>
</tr>
<tr>
<td>CSWB 170</td>
<td>Java for Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSWB 180</td>
<td>Python Programming</td>
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<tr>
<td>TOTAL UNITS</td>
<td></td>
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</tr>
</tbody>
</table>

COURSE OFFERINGS

CSWB 110  Web Site Development with HTML5/CSS3  (3)
2 hours lecture - 3 hours laboratory
Recommended preparation: CSIT 105
Transfer acceptability: CSU
A foundation course for Internet/Intranet technologies. Skills required to develop and publish web sites utilizing HTML, including using HTML tables, web page forms, and basic CSS (Cascading Style Sheets).

CSWB 120  JavaScript and jQuery  (3)
2½ hours lecture - 1½ hours laboratory
Recommended preparation: CSWB 110
Transfer acceptability: CSU
Introduces the skills required to design Web-based applications using the JavaScript scripting language such as writing small scripts; working with data types; creating interactive forms using various form objects; and using the advanced features of JavaScript including loops, frames and cookies. Learn to use jQuery to simplify JavaScript development.

CSWB 135  Advanced JavaScript and Mobile Apps  (3)
2½ hours lecture - 1½ hours laboratory
Prerequisite: CSWB 120
Provides the knowledge and skills necessary to use Advanced JavaScript/jQuery techniques to develop dynamic Web applications that display in a browser or on mobile devices. Topics include jQuery Ajax, Mobile Web App Design using jQuery Mobile, DOM (Document Object Model) Navigation, connecting Web pages to server-side programs, XML and JSON.

CSWB 150  PHP with MySQL  (3)
2½ hours lecture - 1½ hours laboratory
Recommended preparation: CSWB 110
Transfer acceptability: CSU
Provides the knowledge and skills necessary to use the PHP scripting language to develop dynamic Web-based applications. Topics of study include the fundamentals of the scripting, using PHP with HTML forms, creating functions, and integrating with databases using MySQL.

CSWB 170  Java for Information Technology  (3)
2½ hours lecture - 1½ hours laboratory
Transfer acceptability: CSU
Introduction to Java programming with emphasis on the syntax and structure of the Java language. Specific topics will include data types, decision statements, object-oriented programming, arrays, collections and date handling.

CSWB 180  Python Programming  (3)
2½ hours lecture - 1½ hours laboratory
Transfer acceptability: CSU; UC pending
Provides the knowledge and skills necessary to use the Python programming language to develop software for Desktop and Web applications. Topics of study include the fundamentals of the language, using lists, dictionaries and creating functions and classes.

CSWB 197  Topics in Web Technology  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Web Technology. See class schedule for specific topic offered. Course title will designate subject covered.

CSWB 280  Web Design and Development Capstone  (3)
2½ hours lecture - 1½ hours laboratory
Prerequisite: CSWB 135, and BUS 152, and CSWB 150, and GCMW 202, and GCMW 140, and GCMW 112, and GCMW 232
Transfer acceptability: CSU
The student will learn how to integrate the skills covered by the previously taken courses for the Web Design and Development degree, by developing a complete Web application for a small business.

The technologies employed will be: PHP, MySQL, JavaScript/jQuery, jQuery Ajax, HTML, CSS, and Mobile Web Apps developed with jQuery Mobile.

CSWB 295  Directed Study in Web Technology  (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Transfer acceptability: CSU
Designed for the student who has demonstrated a proficiency in computer science subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

Construction Inspection (CI)

Contact Occupational & Noncredit Programs for further information.
760-744-1150, ext. 2284
Office: AA-135
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

Construction Inspection (AS, CA)

Provide comprehensive education in inspection procedures, California code standards, and interpretation of construction drawings to a diverse constituency for a career in the construction industry.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>CI 89</td>
<td>Plumbing Codes</td>
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<tr>
<td>CI 90</td>
<td>Mechanical Codes</td>
<td>3</td>
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<tr>
<td>CI 100</td>
<td>Building Codes I</td>
<td>3</td>
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<tr>
<td>CI 101</td>
<td>Building Codes II</td>
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</tr>
<tr>
<td>CI 105</td>
<td>Electrical Codes I</td>
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<td>CI 106</td>
<td>Electrical Codes II</td>
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<td>CI 115</td>
<td>Nonstructural Plan Review</td>
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<td>CI 125</td>
<td>Plan Reading Technologies</td>
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<td>CI 130</td>
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<td>3</td>
</tr>
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<td>TOTAL UNITS</td>
<td></td>
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</tr>
</tbody>
</table>
COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

CI 89  Plumbing Codes  (3)
3 hours lecture
An in-depth study of the fundamental concepts and interpretations of current state adopted plumbing codes. Topics covered include compliance issues, plumbing specifications, basic plumbing principles, and inspection methods and techniques. International Association of Plumbing and Mechanical Officials (IAPMO) revisions every three years.

CI 90  Mechanical Codes  (3)
3 hours lecture
An in-depth study of the fundamental concepts and interpretations of current state adopted mechanical codes. Topics covered include compliance issues, mechanical specifications, basic mechanical principles, and inspection methods and techniques.

CI 100  Building Codes I  (3)
3 hours lecture
Transfer acceptability: CSU
Introduction to building code requirements with an emphasis on minimum construction standards and code enforcement. Code requirements controlling the design, construction, quality of materials, use, occupancy and location of all buildings are evaluated. Revisions to the International Building Code are every three years.

CI 101  Building Codes II  (3)
3 hours lecture
Transfer acceptability: CSU
A study of the requirements and standards for design, loads, wood, concrete, masonry and steel buildings. The study of exits, roofs, fireplaces, drywall, glass and stucco systems are examined. Interpretation is based on the International Code Council (ICC) building code which is revised every three years.

CI 105  Electrical Codes I  (3)
3 hours lecture
Transfer acceptability: CSU
The first half of The National Electrical Code reviewed in an explanatory, easy-to-understand, yet in-depth manner. Basic electrical theory as it pertains to building construction is discussed with real-life situations used as examples of Code items and inspection techniques. Prepares students for electrical certification tests based on the building codes (both the ICC and the IAEI certifications), as well as advancing knowledge levels for existing Inspectors.

CI 106  Electrical Codes II  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in CI 105
Transfer acceptability: CSU
The second half of The National Electrical Code reviewed in an explanatory, easy-to-understand, yet in-depth manner. Basic electrical theory as it pertains to building construction is discussed with real-life situations used as examples of Code items and inspection techniques. Prepares students for electrical certification tests based on the building codes (both the ICC and the IAEI certifications), as well as advancing knowledge levels for existing Inspectors.

CI 115  Nonstructural Plan Review  (3)
3 hours lecture
Transfer acceptability: CSU
A study of basic methods used by plans examiners to check the nonstructural details of construction drawings in compliance with the international building code. Topics cover analyzing nonstructural details and determining compliance with the minimum requirements for concrete, masonry, wood, and steel structures.

CI 125  Plan Reading Technologies  (3)
3 hours lecture
Transfer acceptability: CSU
A survey of technologies in the construction inspection industry relating to plan reading. Content includes an introduction to construction plan reading; a review of the standard details and specifications used in the San Diego region; discussions on the various roles of the construction and building inspectors; employment opportunities and certifications; an overview of special inspection requirements; construction scheduling; and when and how often inspections should be performed. Content also includes an introduction to California Title 24 including the building, plumbing, electrical, mechanical, California Green Codes, and an introduction to the Americans with Disabilities Act (ADA).

CI 130  CalGreen Codes  (3)
3 hours lecture
Transfer acceptability: CSU
Emphasizes the proper interpretation of the California Green Building Code and green building technologies. The scope of the course will provide inspectors, designers and contractors with the latest code requirements and national standards to promote sustainable communities. Topics include site planning and development, energy conservation, storm water pollution prevention and basic sustainability concepts.

CI 197  Construction Inspection Topics  (.5-3)
3 hours lecture
Transfer acceptability: CSU
Topics in Construction Inspection. May be repeated with new subject matter. See Class Schedule for specific topic offered. Course title will designate subject covered.

Cooperative Education (CE)

Contact the Cooperation Education Department for further information.
760-744-1150, ext. 2354
Office: PBA

In accordance with Board Policy 4103:

COURSE OFFERINGS

Students may earn a maximum of 16 units in Cooperative Education (CE) in any combination of CE100, CE110, or CE150. CE100 and 150 may not exceed 8 units per semester; and CE 110 may not exceed 6 units per semester

STUDENT QUALIFICATIONS: In order to participate in cooperative work experience education students shall meet the following requirements:

1. Be a legally indentured or a certified apprentice, an intern, volunteer, or a paid employee.

2. Have approval of the Cooperative Work Experience Education academic personnel.

3. Pursue a planned program of cooperative work experience education which, in the opinion of the Coordinator, includes new or expanded responsibilities or learning opportunities beyond those experienced during the previous employment.

4. Attend orientation(s) at the beginning of the semester.

The number of units received each semester for on the job experience will be based on the total number of hours worked each semester or summer session as follows:

1 unit - 75 paid hours per semester or session; 60 volunteer hours
2 units - 150 paid hours per semester or session; 120 volunteer hours
3 units - 225 paid hours per semester or session; 180 volunteer hours
4 units - 300 paid hours per semester or session; 240 volunteer hours
CE 100  Cooperative Education  (1,2,3,4)
1, 2, 3, or 4 hours lecture
Transfer acceptability: CSU
Supervised on the job training for all occupational students.

Note: The Occupational Cooperative Work Experience Program is designed to coordinate on the job training and classroom instruction. Supervised employment is related to the occupational goal of the individual student. Employment may be on or off campus; the student may or may not receive pay, depending on where the work is performed.

CE 110  Cooperative Work Experience-General  (2,3)
2 or 3 hours lecture
Transfer acceptability: CSU
Supervised on the job training for all students.

Note: The General Cooperative Work Experience Education Program is designed to give job information and experience to those students employed in jobs not related to coursework in school. Employment may be on or off campus; the student may or may not receive pay depending on where the work is performed.

CE 150  Cooperative Education Internship  (2,3)
10 or 15 hours laboratory
Transfer acceptability: CSU
Students learn major-specific knowledge and skills at an internship site that will enhance employment. Students design and complete an internship project in consultation with their internship advisor and job site supervisor.

Counseling (COUN)
See also Disability Resource

Contact the Counseling Department for further information.
760-744-1150, ext. 2179
Office: SSC-18A

COURSE OFFERINGS
Courses numbered under 100 are not intended for transfer credit.

COUN 100  Introduction to Basic Counseling Skills  (3)
3 hours lecture
Transfer acceptability: CSU
An introduction to the principles and practices of counseling and interviewing. A systematic development of the basic skills essential for effective counseling. Combines informal lecture, videotapes, and role playing interactions. Practicum experience will be required.

COUN 101  Transfer Success  (1)
1 hour lecture
Note: Pass/No Pass grading only
Transfer acceptability: CSU; UC
Provides the necessary strategies for academic success and the research skills essential for developing a comprehensive transfer plan. Topics will include the transfer process, major selection, student support services, evaluating universities, and clarifying educational goals.

COUN 110  College Success  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Provides students with the skills and knowledge necessary to reach their educational goals. Topics include academic learning strategies, college and life skills, diversity awareness and assessment of personal characteristics related to educational success. The role of race, ethnicity, gender, class, sexual orientation and age in higher education and personal identity is a central theme of the course.

COUN 115  Career/Life Planning  (3)
3 hours lecture
Note: May be offered on educational television
Transfer acceptability: CSU
A course designed to motivate the student to take responsibility for the management of his/her life, recognizing the values of planning as a means of coping with uncertainty, and relating work effectively to one's own life.

COUN 120  Quest for Identity and Life Skills  (3)
3 hours lecture
Transfer acceptability: CSU
An exploration of the dynamics involved in the development of the individual who is in search of identity and self-discovery. An examination of one's value and belief system will be studied and compared and contrasted with other American subcultures. Emphasis will also be placed on the role of cultural traditions and practices as well as a set of life skills that will serve to empower one's identity and understanding of self within a multicultural society. Examples of life skills include coping with the physiological effects of stress and anxiety, communicating effectively with multicultural groups, goal setting, emotional development, problem solving, critical thinking skills, and self-esteem.

COUN 148  Managing Stress and Well-Being  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Investigates the cultural, sociological, physiological, and psychological sources of stress and well-being across the lifespan. An examination of how the mind-body relationship is affected by personality, thoughts, life events, and messages received within a multicultural society and family will be studied. Students learn mindfulness and stress reduction techniques that resolve stress and anxiety and promote well-being physically, energetically, emotionally, cognitively, socially, and behaviorally.

COUN 165  Career Search  (1)
1 hour lecture
Note: May be Open entry/Open exit; Pass/No Pass grading only
Transfer acceptability: CSU
Designed to assist students in selecting a career goal. This will be accomplished by identifying the students' career interests, personality type, work values, and transferable skills as they relate to occupations.

COUN 170  Major Search  (1)
1 hour lecture
Note: May be Open entry/Open exit; Pass/No Pass grading only
Transfer acceptability: CSU
This course is designed to assist students to select a major goal and create an educational plan. This will be done by identifying academic interests and through researching career options.

COUN 197  Counseling Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Topics in Counseling. See Class Schedule for specific topic covered. Course title will designate subject covered.
Dance (DNCE)
Contact the Performing Arts Department for further information.
760-744-1150, ext. 2316
Office: PAC-112
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Dance - Emphasis in Euro-Western Dance (AA, CA)
The Euro-Western Dance Program prepares the student for employment in the field of dance and dance-related professions. Both the degree and the certificate are designed as career/technical programs which provide students with the basic skills necessary for involvement in community dance activities, such as teaching in recreation centers, community centers and private studios; or performing or choreographing for community events. This degree and certificate also prepares dancers for the entertainment industry such as theme parks (Disney, Knotts Berry Farm, Legoland, Seaworld, Wild Animal Park), the music industry, as back-up dancers for musical artists, and a range of professional theatrical dance opportunities. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
DNCE 102 Survey of Dance on Film 3
DNCE 145 Choreography I 3
DNCE 146 Production Management 1.5 - 2
DNCE 210 Ballet III 1
DNCE 211 Ballet IV 1
DNCE 215 Jazz Technique III 1
DNCE 216 Jazz Technique IV 1
DNCE 230 Tap III 1
DNCE 231 Tap IV 1
DNCE 280 Student Choreography Production I 1.5 - 2
DNCE 225 Contemporary Dance Ensemble I 1
DNCE 215 Jazz Technique III
DNCE 249 Afro-Cuban/Brazilian Dance III 1 - 2
DNCE 250 Afro-Cuban/Brazilian Dance IV 1 - 1.5
DNCE 190 World Dance Production I 1.5

TOTAL UNITS 21 – 28

Dance - Emphasis in General Dance (AA, CA)
The General Dance Program prepares the student for employment in the field of dance and dance-related professions. Both the degree and the certificate are designed as career/technical programs which provide students with the basic skills necessary for involvement in community dance activities, such as teaching in recreation centers, community centers and private studios; or performing or choreographing for community events. This degree and certificate also prepares dancers for the entertainment industry such as theme parks (Disney, Knotts Berry Farm, Legoland, Seaworld, Wild Animal Park), the music industry, as back-up dancers for musical artists, and a range of professional theatrical dance opportunities. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
DNCE 101 Survey of World Dance 3
DNCE 127 Spanish Flamenco I 1
DNCE/MUS 137 Cuban and Brazilian Drumming I .5 - 1
DNCE/MUS 138 Cuban and Brazilian Drumming II .5 - 1
DNCE 151 Latin Social Dance I 1
DNCE 152 Latin Social Dance II 1
DNCE 153 Capoeira: Afro/Brazilian Martial Arts I 1
DNCE 154 Capoeira: Afro/Brazilian Martial Arts II 1
DNCE 155 Hip Hop I 1
DNCE 156 Hip Hop II 1
DNCE 158 Hawaiian and Tahitian Dance I 1
DNCE 159 Hawaiian and Tahitian Dance II 1
DNCE 162 Near and Middle Eastern I 1
DNCE 163 Near and Middle Eastern II 1
DNCE 190 World Dance Production I 1.5

TOTAL UNITS 21 – 28
Group I Electives - Ballet/Pointe (Select one course)
DNCE 115 Ballet I 1
DNCE 116 Ballet II 1
DNCE 117 Pointe I 1
DNCE 118 Pointe II 1
DNCE 217 Pointe III 1
DNCE 218 Pointe IV 1
DNCE 110 Modern Dance I 1
DNCE 111 Modern Dance II 1
DNCE 205 Modern Dance III 1
DNCE 206 Modern Dance IV 1

Group II Electives - Afro-Cuban/Brazilian and Latin Social (Select one course)
DNCE 149 Afro-Cuban/Brazilian Dance I 1 - 1.5
DNCE 150 Afro-Cuban/Brazilian Dance II 1 - 1.5
DNCE 151 Latin Social Dance I 1
DNCE 152 Latin Social Dance II 1
DNCE 251 Latin Social Dance III 1
DNCE 252 Latin Social Dance IV 1

Group III Electives - Jazz or Tap (Select two courses)
DNCE 120 Jazz Technique I 1
DNCE 121 Jazz Technique II 1
DNCE 215 Jazz Technique III 1
DNCE 216 Jazz Technique IV 1
DNCE 130 Tap I 1
DNCE 131 Tap II 1
DNCE 230 Tap III 1
DNCE 231 Tap IV 1

Group IV Electives - Near and Middle Eastern or Hawaiian and Tahitian (Select one course)
DNCE 162 Near and Middle Eastern I 1
DNCE 163 Near and Middle Eastern II 1
DNCE 262 Near and Middle Eastern III 1
DNCE 263 Near and Middle Eastern IV 1
DNCE 158 Hawaiian and Tahitian Dance I 1
DNCE 159 Hawaiian and Tahitian Dance II 1
DNCE 258 Hawaiian and Tahitian Dance III 1
DNCE 259 Hawaiian and Tahitian Dance IV 1

Group V Electives - General Dance Production and Ensemble (Select one course)
DNCE 148 Drum and Dance Ensemble I 1 - 1.5
DNCE 248 Drum and Dance Ensemble II 1 - 1.5
DNCE 190 World Dance Production I 1 - 1.5
DNCE 290 World Dance Production II 1 - 1.5
DNCE 225 Contemporary Dance Ensemble I 1
DNCE 226 Contemporary Dance Ensemble II 1
DNCE 270 Contemporary Ballet Production I 1
DNCE 272 Contemporary Ballet Production II 1
DNCE 271 Classical Ballet Production I 1
DNCE 282 Classical Ballet Production II 1
DNCE 273 Modern Dance Production I 1
DNCE 275 Modern Dance Production II 1
DNCE 274 Contemporary Modern Dance Production I 1
DNCE 276 Contemporary Modern Dance Production II 1
DNCE 277 Classical Jazz Production I 1
DNCE 287 Classical Jazz Production II 1
DNCE 278 Modern Jazz Production I 1
DNCE 288 Modern Jazz Production II 1
DNCE 279 Tap Production I 1
DNCE 289 Tap Production II 1
DNCE 281 Summer Dance Workshop 1 - 1.5

Group VI Electives - General Dance (Select one course)
DNCE 100 Survey of Dance 3
DNCE 102 Survey of Dance on Film 3
DNCE 127 Spanish Flamenco I 1
DNCE/MUS 137 Cuban and Brazilian Drumming I 1.5 - 1
DNCE/MUS 138 Cuban and Brazilian Drumming II 1.5 - 1
DNCE 140 Dance Improvisation I 1
DNCE 153 Capoeira: Afro/Brazilian Martial Arts I 1
or
DNCE 154 Capoeira: Afro/Brazilian Martial Arts II 1
DNCE 155 Hip Hop I 1
DNCE 156 Hip Hop II 1
DNCE 255 Hip Hop III 1
DNCE 256 Hip Hop IV 1
DNCE/MUS/TA 173 Musical Theatre Scenes I 1
DNCE 281 Summer Dance Workshop 1.5 - 1.5

TOTAL UNITS 28.5 - 34

Dance - Emphasis in World Dance (AA, CA)
The World Dance Program prepares the student for employment in the field of dance and dance-related professions. Both the degree and the certificate are designed as career/technical programs which provide students with the basic skills necessary for involvement in community dance activities, such as teaching in recreation centers, community centers and private studios; or performing or choreographing for community events. This degree and certificate also prepares dancers for the entertainment industry such as theme parks (Disney, Knotts Berry Farm, Legoland, SeaWorld, Wild Animal Park), the music industry, as back-up dancers for musical artists, and a range of professional theatrical dance opportunities. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements
DNCE 101 Survey of World Dance 3
DNCE 145 Choreography I 3
DNCE 148 Drum and Dance Ensemble I 1 - 1.5
or
DNCE 248 Drum and Dance Ensemble II 1 - 1.5
DNCE 165 Production Management 2
DNCE 190 World Dance Production I 1 - 1.5
or
DNCE 290 World Dance Production II 1.5
DNCE 280 Student Choreography Production I 1.5 - 2
DNCE 249 Afro-Cuban/Brazilian Dance III 1.5
or
DNCE 250 Afro-Cuban/Brazilian Dance IV 1.5
DNCE 251 Latin Social Dance III 1
or
DNCE 252 Latin Social Dance IV 1
DNCE 253 Capoeira: Afro/Brazilian Martial Arts III 1
or
DNCE 254 Capoeira: Afro/Brazilian Martial Arts IV 1
DNCE 258 Hawaiian and Tahitian Dance III 1
or
DNCE 259 Hawaiian and Tahitian Dance IV 1

Group I Electives - Afro-Cuban/Brazilian (Select one course)
DNCE 149 Afro-Cuban/Brazilian Dance I 1 - 1.5
DNCE 150 Afro-Cuban/Brazilian Dance II 1 - 1.5

Group II Electives - Latin Social (Select one course)
DNCE 151 Latin Social Dance I 1
DNCE 152 Latin Social Dance II 1
**Dance**

Dance courses examine a diverse range of historical, social, economic, and gender viewpoints. They include a survey of current dance forms, as well as presentations of dances from around the world as experienced through films, lecture, demonstration, and movement. The courses also analyze dances, dance styles, costumes, and musical accompaniment.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Transfer acceptability</th>
<th>Notes</th>
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<tbody>
<tr>
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<td>DNCE 105 Introduction to Dance History</td>
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<td>2 hours lecture - 3 hours laboratory</td>
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</table>

**Course Offerings**

State Regulations (Title 5, Sections 55040-55041) limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Dance have limitations on the number of times a student may enroll. Some Dance courses may be repeated provided student has not reached the limitation for the applicable group of Dance courses. Specific information about enrollment limitations for Dance classes is available at [http://www.palomar.edu/schedule/restrictions.htm](http://www.palomar.edu/schedule/restrictions.htm)

Note: Students are screened for level placement in all technique classes the previous semester or the first day of class.

**TOTAL UNITS** 24-31
DNCE 127  Spanish Flamenco I  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Specific elements of Spanish/Flamenco dance styles: castanets, footwork, and arm technique. Students will explore a variety of Flamenco dances from different regions both traditional and modern.

DNCE 128  Spanish Flamenco II  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Specific elements of Spanish/Flamenco dance styles: castanets, footwork, and arm technique. Students will explore a variety of Flamenco dances from different regions both traditional and modern.

DNCE 130  Tap I  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Level I skills in tap dance covering basic and traditional material.

DNCE 131  Tap II  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Level II skills in tap dance focusing on new trends and styles.

DNCE 135  Ballroom Dance I  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Development of beginning social dance techniques concerning both standard and contemporary social dance steps and styling.

DNCE 136  Ballroom Dance II  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Intermediate level social dance skills, steps, and styling.

DNCE 137  Cuban and Brazilian Drumming I  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Note: Cross listed as MUS 137  
Transfer acceptability: CSU; UC  
Drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, popular and folkloric: Rumba, Congo (Makuta/Palo), Franco/Haitian (Gaga/Congo Layet) from East and West Cuba. Develop ability to work as a drum ensemble.

DNCE 138  Cuban and Brazilian Drumming II  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition  
Note: Cross listed as MUS 138  
Transfer acceptability: CSU; UC  
Intermediate level drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, Rumba, Congo, Makuta from Cuba. Develop ability to work as part of a drum ensemble.

DNCE 140  Dance Improvisation I  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Study of dance through varied experiences in movement. Exploration of elements of time, space, and energy through movement improvisations and group studies.

DNCE 141  Dance Improvisation II  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Study of dance through varied experiences in movement with emphasis on understanding movement principles, beginning music analysis, use of percussion and various forms of accompaniment, and composition of solo studies to composed music.

DNCE 145  Choreography I  (3)  
3 hours lecture  
Corequisite: DNCE 280  
Transfer acceptability: CSU; UC  
Beginning choreography with emphasis on combining movements and developing ideas in relation to motivation, design, and dynamics. Discuss forms and learn how to articulate the art of dance.

DNCE 146  Choreography II  (3)  
3 hours lecture  
Corequisite: DNCE 285  
Transfer acceptability: CSU; UC  
Intermediate choreography with emphasis on combining movements and developing ideas in relation to movement and form. Discuss forms and develop the skills to articulate the art of dance.

DNCE 147  Repertory  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU  
Learning, rehearsing, and performing dances as an outreach to Palomar College, area high schools, and the community.

DNCE 148  Drum and Dance Ensemble I  (.5, 1, 1.5)  
1½, 3 or 4½ hours laboratory  
Transfer acceptability: CSU; UC  
Rehearsal and performance of traditional music and dances of the African Diaspora: West African, Afro-Cuban, Afro-Brazilian, and Afro-Caribbean. Performance of original work influenced by dances of the African Diaspora. Emphasis will be on performing as an ensemble.

DNCE 149  Afro-Cuban/Brazilian Dance I  (.5, 1, 1.5)  
1½, 3 or 4½ hours laboratory  
Transfer acceptability: CSU; UC  
A beginning movement class designed to introduce students to the unique and vibrant dance traditions of Cuba and Brazil.

DNCE 150  Afro-Cuban/Brazilian Dance II  (.5, 1, 1.5)  
1½, 3 or 4½ hours laboratory  
Transfer acceptability: CSU; UC  
Intermediate level of Afro-Cuban/Brazilian movement, with emphasis on combinations, and developing a larger vocabulary of the traditional dances explored in this class.

DNCE 151  Latin Social Dance I  (.5, 1, 1.5)  
1½, 2, 3 or 4½ hours laboratory  
Transfer acceptability: CSU; UC  
A movement class designed to introduce students to the vibrant Hispanic culture through contemporary social dances. Through demonstration and participation students will explore a variety of social dances that are all part of the Latin Diaspora.

DNCE 152  Latin Social Dance II  (.5, 1, 1.5)  
1½, 2, 3 or 4½ hours laboratory  
Transfer acceptability: CSU; UC  
A movement class designed to continue exploring the vibrant Hispanic culture through a variety of contemporary social dances. Through demonstration and participation students will explore a variety of social dances that are all part of the Latin Diaspora.

DNCE 153  Capoeira: Afro/Brazilian Martial Arts I  (.5 - 1)  
1½, 2 or 3 hours laboratory  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus  
Designed to introduce students to the unique martial art form from Brazil known as Capoeira. Through lecture, demonstration, and movement participation students will study this multi-faceted art form.
DNCE 154 Capoeira: Afro/Brazilian Martial Arts II (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Intermediate level class of the unique martial art form from Brazil known as Capoeira. Through lecture, demonstration and movement participation students will study this multi-faceted art form.

DNCE 155 Hip Hop I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Beginning level of Hip Hop, an exhilarating class. Designed to introduce students to this unique contemporary dance form.

DNCE 156 Hip Hop II (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Intermediate level of Hip Hop, an exhilarating class. Designed to introduce students to this unique contemporary dance form.

DNCE 157 Brazilian and Tahitian Dance I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
An exhilarating level one dance class designed to introduce students to the exotic Polynesian and Tahitian culture through percussion, song, and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DNCE 158 Hawaiian and Tahitian Dance II (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Intermediate level of an exhilarating class designed to introduce students to the exotic Hawaiian and Tahitian culture through percussion, song and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DNCE 161 Teaching Methods in Dance (3)
3 hours lecture
Transfer acceptability: CSU
Explore the teaching/learning/knowing process by blending current educational, teaching and learning styles with practical hands on teaching experiences. Through the constant integration of theory and practice, we will utilize our own experiences and understanding and our interpretations of theoretical literature to construct our own personal pedagogies. The construction of a safe and consistent dance environment for all ages will be covered.

DNCE 162 Near and Middle Eastern I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
An introduction to classical and folkloric dances from the Near and Middle East.

DNCE 163 Near and Middle Eastern II (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
A more in-depth study of classical and folkloric dances for the Near and Middle East.

DNCE 165 Production Management (1.5, 2, 2.5)
1, 1½, or 2 hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU
Principles and methods of organization, operation, promotion, programming, publicity, ticket sales, box office, public relations, costumes, props, and graphics. Practical experience in college and community dance productions.

DNCE 170 Pilates® (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC

DNCE 173 Musical Theatre Scenes I (3)
3 hours laboratory
Note: Cross listed as MUS 173/TIA 173
Transfer acceptability: CSU
Rehearsal and performance of solo and group scenes from Broadway musicals dating from the 1930's to the present.

DNCE 174 Musical Theatre Scenes II (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in DNCE/MUS/TA 173
Note: Cross listed as TA/MUS 174
Transfer acceptability: CSU
A continuation of Musical Theatre Scenes I. A deeper exploration into the acting, singing, and dancing necessary for Broadway Musicals from the 1930's to present.

DNCE 182 Introduction to Arts Management (3)
9 hours laboratory
Note: Cross listed as AMS 182/ART 182/MUS 182/TIA 182
Transfer acceptability: CSU
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

DNCE 183 Internship in Arts Management (3)
9 hours laboratory
Note: Cross listed as AMS 183/ART 183/MUS 183/TIA 183
Transfer acceptability: CSU
Practical experience in arts management in the visual and performing arts.

DNCE 190 World Dance Production I (5, 1, 1.5)
1½, 3 or 4½ hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance experience of World Dance. The first experience focuses on large ensemble work and musicality.

DNCE 197H Topics in Dance (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Topics in Dance. See Class Schedule for specific topic offered. Course title will designate subject covered.

DNCE 205 Modern Dance III (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Intermediate dance technique with emphasis on performance skills.

DNCE 206 Modern Dance IV (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Advanced level modern dance technique with an emphasis on performance skills.

DNCE 210 Ballet III (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Ballet techniques, principles, and terminology at the advanced level with emphasis on line, phrasing, endurance, and progressively difficult steps and combinations.
### DNCE 211 Ballet IV (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Ballet techniques, principles, and terminology at the advanced level with emphasis on line, phrasing, endurance, musicality, and progressively difficult steps and combinations.

### DNCE 215 Jazz Technique III (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Level III jazz movement and floor progressions.

### DNCE 216 Jazz Technique IV (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Level IV jazz dance technique in commercial dance stylizations and rhythms.

### DNCE 217 Pointe III (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
This course is designed to introduce concepts of pointe technique at the Intermediate level, while reinforcing intermediate ballet technique. Concentration will be placed on proper alignment, toe placement, ankle strength and flexibility, rotation of the legs from the hip sockets, and overall musicality artistry.

### DNCE 218 Pointe IV (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
This course is designed to introduce concepts of pointe technique at the advanced level, while reinforcing advanced ballet technique. Concentration will be placed on proper alignment, toe placement, ankle strength and flexibility, rotation of the legs from the hip sockets, and overall artistry.

### DNCE 225 Contemporary Dance Ensemble I (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
An initial rehearsal and performance experience in a dance ensemble. Includes preparing multiple works for a variety of different performing opportunities. Generally this would involve corps (group) roles.

### DNCE 226 Contemporary Dance Ensemble II (.5 - 1)

**1½ - 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
A second rehearsal and performance experience in a dance ensemble. Includes preparing multiple works for a variety of different performing opportunities. Generally this would involve smaller supporting roles (smaller group work) and solo work.

### DNCE 230 Tap III (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Advanced skills in tap dance with focus on new trends and styles.

### DNCE 231 Tap IV (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Level IV skills in tap dance with focus on new trends and styles.

### DNCE 237 Cuban and Brazilian Drumming III (.5-1)

**1½ to 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
The third course in the series focuses on being able to hold supporting roles in ensemble style presentations.

### DNCE 238 Cuban and Brazilian Drumming IV (.5-1)

**1½ to 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
The fourth course in the series focuses on being able to hold leading roles in ensemble style presentations as well as supporting roles for the Palomar Drum and Dance Ensemble and Palomar dance classes.

### DNCE 248 Drum and Dance Ensemble II (.5, 1, 1.5)

**1½, 3, or 4½ hours laboratory**  
**Transfer acceptability:** CSU; UC  
A second rehearsal and performance in the Drum and Dance Ensemble. Includes preparing multiple works for a variety of different performing opportunities including world festivals and campus events. Generally this would involve larger supporting roles or small ensemble work.

### DNCE 249 Afro-Cuban/Brazilian Dance IV (.5, 1, 1.5)

**1½, 3, or 4½ hours laboratory**  
**Transfer acceptability:** CSU; UC  
Advanced level of Afro-Cuban/Brazilian movement, with an emphasis on stylization, musicality, and progressively difficult movement, as well as full pieces of choreography.

### DNCE 250 Afro-Cuban/Brazilian Dance III (.5 - 1)

**1½, 2, 3 or 4½ hours laboratory**  
**Transfer acceptability:** CSU; UC  
Intermediate level of Afro-Cuban/Brazilian movement, with an emphasis on combinations, stylization, musicality, and progressively difficult movement, as well as full pieces of choreography. This level will also focus on performance readiness.

### DNCE 251 Latin Social Dance III (.5, 1, 1.5)

**1½, 2, 3 or 4½ hours laboratory**  
**Transfer acceptability:** CSU; UC  
A movement class designed to review dances from levels I & II, and introduce more advanced vocabulary. Through demonstration and movement participation students will continue to explore a variety of social dances that are all part of the Latin Diaspora.

### DNCE 252 Latin Social Dance IV (.5, 1, 1.5)

**1½, 2, 3 or 4½ hours laboratory**  
**Transfer acceptability:** CSU; UC  
An advanced movement class, designed to challenge students in their knowledge and ability of contemporary Latin Social dances, presented in this family of courses. Through demonstration and movement participation students will continue to explore a variety of social dances that are all part of the Latin Diaspora.

### DNCE 253 Capoeira: Afro/Brazilian Martial Arts III (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Through lecture, demonstration and movement participation students will study intermediate level Capoeira.

### DNCE 254 Capoeira: Afro/Brazilian Martial Arts IV (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Through lecture, demonstration and movement participation students will study advanced level Capoeira.

### DNCE 255 Hip Hop III (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Advanced level of Hip Hop, an exhilarating class designed to introduce students to this unique contemporary dance form.

### DNCE 256 Hip Hop IV (.5 - 1)

**1½, 2 or 3 hours laboratory**  
**Transfer acceptability:** CSU; UC  
Level IV dance with focus on new trends and styles.
DANCE 258 Hawaiian and Tahitian Dance III (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
An exhilarating level III dance class teaching the exotic Hawaiian and Tahitian culture through percussion, song, and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DANCE 259 Hawaiian and Tahitian Dance IV (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Level IV dance technique of the exotic Hawaiian and Tahitian culture through percussion, song, and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DANCE 262 Near and Middle Eastern III (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Level III study of classical and folkloric dances for the Near and Middle East.

DANCE 263 Near and Middle Eastern IV (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Advanced level IV study of classical and folkloric dances for the Near and Middle East.

DANCE 270 Contemporary Ballet Production I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach and community events.

DANCE 271 Classical Ballet Production I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach and special events.

DANCE 272 Contemporary Ballet Production II (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach, and special events.

DANCE 273 Modern Dance Production I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach, and special events.

DANCE 274 Contemporary Modern Dance Production I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach, and special events.

DANCE 275 Modern Dance Production II (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach, and special events.

DANCE 276 Contemporary Modern Dance Production II (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and production for dance concerts, outreach and special events.

DANCE 277 Classical Jazz Production I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach, and special events.

DANCE 278 Modern Jazz Production I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance performance, outreach, and special events.

DANCE 279 Tap Production I (5 - 1)
1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts, outreach and special events.

DANCE 280 Student Choreography Production I (1.5, 2)
4½ or 6 hours laboratory
Corequisite: DANCE 146
Transfer acceptability: CSU; UC
Rehearsal and performance for dance concerts.

DANCE 281 Summer Dance Workshop (5, 1, 1.5)
1½, 2, 3 or 4½ hours laboratory
Transfer acceptability: CSU; UC
Further explores the rehearsal and performance experience of a classical ballet. This second experience concentrates on smaller ensemble work and solos, resulting in multiple performances of the same work on a proscenium stage.

DANCE 282 Classical Ballet Production II (5-1)
1½ - 3 hours laboratory
Transfer acceptability: CSU; UC
Further explores the rehearsal and performance experience of tap choreography. Concentrates on small ensemble work and solos, resulting in multiple performances of the same work on a proscenium stage.

DANCE 285 Student Choreography Production II (1.5, 2)
4½ - 6 hours laboratory
Corequisite: DANCE 146
Transfer acceptability: CSU; UC
Further explores the rehearsal and performance of a student-based choreography focusing on smaller ensemble and solo work.

DANCE 286 Modern Jazz Production II (5 - 1)
1½ - 3 hours laboratory
Transfer acceptability: CSU; UC
Further explores the rehearsal and performance experience of a classical jazz work in the style of 1940's-1960's Hollywood/concert jazz styles. This second experience focuses on small ensemble work, solo work and musicality.

DANCE 287 Modern Jazz Production II (5 - 1)
1½ - 3 hours laboratory
Transfer acceptability: CSU; UC
Further explores the rehearsal and performance experience of a classical ballet. This second experience focuses on smaller ensemble work, solos, and musicality.

DANCE 288 World Dance Production II (5 - 1)
1½ - 3 hours laboratory
Transfer acceptability: CSU; UC
Further explores the rehearsal and performance experience of World Dance. This second experience focuses on small ensemble work and musicality.

DANCE 289 Tap Production II (5 - 1)
1½ - 3 hours laboratory
Transfer acceptability: CSU; UC
Further explores the rehearsal and performance experience of tap choreography. Concentrates on small ensemble work and solos, resulting in multiple performances of the same work on a proscenium stage.

DANCE 290 Independent Projects in Dance (5, 1, 1.5)
1½, 2, 3 or 4½ hours laboratory
Transfer acceptability: CSU; UC
Fostering creative research and independent study projects in dance.
DNCE 297  Experimental Projects in Dance  (.5, 1, 1.5)
1½, 2, 3 or 4½ hours laboratory
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Advanced dance projects including individual research, tutoring, and performance for college classes and community projects.

Database
See CSIT - Information Technology

Dental Assisting (DA)
Contact the Dental Assisting Program for further information.
760-744-1150, ext. 2571
Office: HS-107
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY
The Registered Dental Assisting Program is accredited by the Commission on Dental Accreditation of the American Dental Association, and is approved by the Dental Board of California.
Certification and Licensing: Upon successful program completion, student will be issued Certificates in Dental Radiography, Coronal Polishing, Pit and Fissure Sealants, California Practice Act and Infection Control. Students who successfully complete the program are eligible to take the California Registered Dental Assistant Examination to become licensed as a California Registered Dental Assistant (RDA); and are eligible to take the nationally recognized Certified Dental Assistant (CDA) Examination offered by the Dental Assisting National Board (DANB).

ADMISSION REQUIREMENTS
Admission to the Registered Dental Assisting Program is by special application. To be eligible for admission, applicants must:
1. Complete Palomar College Application for Admission;
2. Attend a Registered Dental Assisting Program orientation meeting;
3. Show proof of high school graduation or equivalent by submitting official transcripts, or proof of a passing score on the General Education Development test (GED);
4. Submit medical, vision and dental clearances including Hepatitis B series and TB test results;
5. Meet academic requirements as specified in the Palomar College Catalog;
6. Have a minimum GPA of 2.5;
7. Be a minimum age of 18 years.
Dental Assistants must have good vision, hearing, and the ability to communicate orally. In addition, they must have the ability to comprehend and interpret written information; and the dexterity to use small dental instruments.

Registered Dental Assisting (AS, CA)
A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT
To remain enrolled in the program, students must earn a minimum grade of “C” (2.0) in each of the required courses. Students must pass laboratory and clinical evaluations at 75% competency or a substandard grade will be assigned for the course. A student may fail a dental assisting course on the basis of clinical practice even though theory grades may be passing.
Admission to the Dental Assisting program is by special application. The Dental Assisting program must be completed within two years or the student may need to repeat all required Dental Assisting courses. Contact the department for more information. NOTE: For course repetition purposes, federal financial aid would not be available to students who have already attempted and/or completed required Dental Assisting courses.

Program Requirements

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<td>*DA 50  Introduction to Dental Sciences and Dental Occupations</td>
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<td>*DA 57  Dental Sciences and Anatomy</td>
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<td>ENG 50  Introductory Composition or English Composition</td>
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<td>ENG 100 English Composition or English Composition</td>
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<td>ESL 103 Written Communication III or Proof of current BLS for Healthcare Providers Certificate</td>
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First Semester

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<td>DA 70  Dental Radiography I</td>
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</tr>
<tr>
<td>DA 75  Dental Operative Procedures</td>
<td>5</td>
</tr>
<tr>
<td>DA 82  Preventive Dentistry I</td>
<td>1.5</td>
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</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DA 71  Dental Radiography II</td>
<td>5</td>
</tr>
<tr>
<td>DA 83  Preventive Dentistry II</td>
<td>5</td>
</tr>
<tr>
<td>DA 85  Advanced Dental Procedures</td>
<td>5</td>
</tr>
<tr>
<td>DA 90  Clinical Rotation</td>
<td>6</td>
</tr>
</tbody>
</table>

TOTAL UNITS 36 - 37

*Must have completed DA 50 within 2 years and DA 57 within 5 years with a grade of “C” or better prior to admission into the Dental Assisting Program.

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.
Courses numbered under 100 are not intended for transfer credit.

DA 47  Dental Assisting Topics  (.5 - 4)
3 hours lecture
Note: Graded only
General orientation to dental assisting. Introduction to basic oral anatomy, oral hygiene techniques and prevention, human behavior, dental nomenclature, dental assisting, history of dentistry, ethics, role of the dental assistant and other auxiliary personnel; licensing and certification of dental assistants; dental jurisprudence and malpractice; California Dental Practice Act, psychology and observation in dental offices.

DA 50  Introduction to Dental Sciences and Dental Occupations  3
3 hours lecture
Note: Graded only
Introduction of dental terminology, histology, embryology, tooth growth, eruption, and anatomy; head and neck anatomy, and physiology of the body. Form and function of individual teeth, occlusion, oral pathology, diet and nutrition, relation of oral health to general health, microbiology, disease control and dental pharmacology.

DA 57  Dental Sciences and Anatomy  3
3 hours lecture
Note: Graded only
Introduction of dental terminology, histology, embryology, tooth growth, eruption, and anatomy; head and neck anatomy, and physiology of the body. Form and function of individual teeth, occlusion, oral pathology, diet and nutrition, relation of oral health to general health, microbiology, disease control and dental pharmacology.

DA 60  Dental Materials  3
3 hours lecture - 1 hour laboratory
Prerequisite: Admission to the Registered Dental Assisting Program
Note: Graded only
Chemical properties and uses of dental materials and solutions; manipulative techniques and methods of preparation.
Dental Assisting-Diesel Mechanics Technology

DA 65  Dental Practice Management  (2)
2 hours lecture - 1 hour laboratory
Prerequisite: Admission to the Registered Dental Assisting Program
Note: Graded only
Reception and care of the patient in the dental office, communication skills, telephone techniques, appointment scheduling, dental computer software, dental records (charting health and dental history), filing, bookkeeping, accounts receivable and accounts payable, inventory management, principles of and use of insurance forms and collections.

DA 70  Dental Radiography I  (2.5)
2 hours lecture - 2 hours laboratory
Prerequisite: Admission to the Registered Dental Assisting Program
Theory and technique of oral radiography, radiation hygiene, anatomical landmarks, and methods and materials for processing radiographs using film and dental radiography. The laboratory portion will provide the student with knowledge concerning film and digital sensor placement, cone angulation, exposing and developing radiographs, and mounting and evaluating processed films and digital radiographs.

DA 71  Dental Radiography II  (.5)
1½ hours laboratory
Prerequisite: A minimum grade of "C" in DA 50 and 70, and proof of Hepatitis B Immunization; and current BLS for Healthcare Providers Certificate
Note: Graded only
Advanced clinical experience regarding film and digital sensor placement, cone angulation, exposing and developing radiographs, and mounting and evaluating radiographs.

DA 75  Dental Operative Procedures  (5)
3 hours lecture - 6 hours laboratory
Prerequisite: Admission to the Registered Dental Assisting Program
Note: Graded only
Applications of and introduction to preclinical dental assisting in operative and specialty dental procedures, care of equipment, instrumentation, infection control, disease transmission, charting, utilization of dental materials, dental office emergencies, and functions delegated to the California Registered Dental Assistant.

DA 82  Preventive Dentistry I  (1.5)
1 hour lecture - ½ hour laboratory
Prerequisite: Admission to the Registered Dental Assisting Program
Note: Graded Only
This course teaches laboratory and clinical applications of coronal polishing, periodontics, preventive dentistry and placement of pit and fissure sealants.

DA 83  Preventive Dentistry II  (.5)
2 hours laboratory
Prerequisite: A minimum grade of "C" in DA 82
Note: Pass/No Pass grading only
Application of concepts and skills from DA 82. Emphasis is on the coronal polishing procedure and pit and fissure sealants as applied to clinical patients.

DA 85  Advanced Dental Procedures  (5)
3 hours lecture - 6 hours laboratory
Prerequisite: A minimum grade of "C" in DA 50, 60 and 75, and proof of Hepatitis B Immunization; and current BLS for Healthcare Providers Certificate
Note: Graded only
Advanced laboratory and clinical experience focusing on basic skills previously learned. Emphasis is placed on 1) clinical use of impression materials for obtaining study models, 2) pouring and trimming plaster and stone models, 3) fabrication of custom trays, 4) fabrication of provisional restorations, and 5) advanced prosthodontic and orthodontic instruction.

DA 90  Clinical Rotation  (6)
19 hours laboratory/clinical
Prerequisite: A minimum grade of "C" in DA 50 and 75, and proof of Hepatitis B Immunization; and current BLS for Healthcare Providers Certificate
Note: Pass/No Pass only
An intensive program of clinical dental experiences, working with patients and staff at clinics and/or private dental offices. Students will assist the dentists in specialized and operative procedures and duties delegated to the California licensed Registered Dental Assistant.

DA 97  Dental Assisting Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Pass/No Pass only
Topics in Dental Assisting. See Class Schedule for specific topic offered. Course title will designate subject covered.

Diesel Technology (AS, CA)

Contact the Trade and Industry Department for further information.
760-744-1150, ext. 2545
Office: T-102A
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

Diesel Technology (AS, CA)
The Diesel Technology program at Palomar College gives the student an opportunity to gain the skills and knowledge needed for success in the challenging field of Diesel Technology, learning about servicing and maintaining diesel powered highway trucks, off-road heavy equipment, and stationary engines. The two-year program which leads to a Certificate of Achievement can also be applied towards an Associate in Science Degree in Diesel Technology.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>DMT 100</td>
<td>Introduction to Diesel Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>DMT 105</td>
<td>Heavy-Duty Diesel Tune-Up/Analysis</td>
<td>4</td>
</tr>
<tr>
<td>DMT 110</td>
<td>Heavy-Duty Electricity</td>
<td>4</td>
</tr>
<tr>
<td>DMT 120</td>
<td>Air Brake Systems</td>
<td>4</td>
</tr>
<tr>
<td>DMT 125</td>
<td>Truck Transmission and Drive Lines</td>
<td>4</td>
</tr>
<tr>
<td>DMT 200</td>
<td>Diesel Engine Rebuilding I</td>
<td>4</td>
</tr>
<tr>
<td>DMT 201</td>
<td>Diesel Engine Rebuilding II</td>
<td>4</td>
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</table>

Electives (Select 4 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AT 160</td>
<td>Associated Studies in Automotives</td>
<td>3</td>
</tr>
<tr>
<td>CE 100</td>
<td>Cooperative Education</td>
<td>1-4</td>
</tr>
<tr>
<td>DMT 115</td>
<td>Alternative Fuels</td>
<td>4</td>
</tr>
<tr>
<td>DMT 130</td>
<td>Medium-Duty Diesel Engine Tune-Up</td>
<td>4</td>
</tr>
<tr>
<td>DMT 135</td>
<td>Basic Hydraulics</td>
<td>4</td>
</tr>
<tr>
<td>DMT 196</td>
<td>Special Problems In Diesel Technology</td>
<td>0.5-3</td>
</tr>
<tr>
<td>DMT 197</td>
<td>Diesel Mechanics Technology Workshop</td>
<td>0.5-3</td>
</tr>
<tr>
<td>IT/WELD 108</td>
<td>Technical Mathematics</td>
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<tr>
<td>MATH 56</td>
<td>Beginning/Intermediate Algebra</td>
<td>6</td>
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<tr>
<td>MATH 60</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 100</td>
<td>Exploring Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>WELD 100</td>
<td>Welding I</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 32

See Catalog addendum at http://www.palomar.edu/catalog
COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

DMT 100  Introduction to Diesel Mechanics  (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Theory and practice of fundamental skills for the maintenance and operation of basic diesel engines. Topics for study include: basic theory of operation; engine applications; engine lubricating and cooling; intake, exhaust and fuel systems; and electronic control.

DMT 105  Heavy-Duty Diesel Tune Up and Engine Analysis  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in DMT 100
Transfer acceptability: CSU
The use of software and diagnostic equipment in performing diesel tune-up. Topics include: theory of operation, tune-up procedures, fuel system function and repair, diagnostic equipment usage, electronic engine controls, mechanical and electronic engine system troubleshooting.

DMT 110  Heavy-Duty Electricity  (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Heavy-duty electricity systems principles and service. Topics of study include electrical theory, batteries, wiring diagrams, 12V and 24V starters, alternators and electrical troubleshooting, and test equipment.

DMT 115  Alternative Fuels  (4)
3 hours lecture - 3 hours laboratory
Recommended preparation: DMT 100
Transfer acceptability: CSU
Theory and servicing of alternative fueled engines. Topics for study include various types of fuels, fuel handling and safety procedures, basic principles, regulators and mixers, all system components operation and service, electronic control systems, and emission testing.

DMT 120  Air Brake Systems  (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
The service and repair of heavy duty hydraulic and air brake systems and their components. Topics of study include brake troubleshooting, complete system repair, anti skid brake system, and related axle services.

DMT 125  Truck Transmission and Drive Lines  (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Service and repair of heavy duty truck drive lines. Topics for study include the disassembly, inspection and reassembly of single and multiple disc clutches, four to fifteen speed transmissions, universal joints, and differentials.

DMT 130  Medium Duty Diesel Engine Tune Up  (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
The use of diesel tune up and diagnostic equipment. Topics include: fuel systems; compression testing; fuel pump and injection timing; troubleshooting procedures; alternators, regulators, and starting systems.

DMT 135  Basic Hydraulics  (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Basic hydraulic system principles and service. Topics of study include hydraulic theory, safety requirements, hydraulic diagrams and ISO symbols, component operation, service and repair troubleshooting, and test equipment usage.

DMT 196  Special Problems in Diesel Technology  (.5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
A special study in topics in the area of interest to diesel mechanics, generally research in nature. The content to be determined by the need of the student under a signed contract with the instructor.

DMT 197  Diesel Mechanics Technology Workshop  (.5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
A special selection of topics specific in nature. The contents will vary depending on specific needs of the students and community.

DMT 200  Diesel Engine Rebuilding I  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in DMT 100
Recommended preparation: DMT 105
Transfer acceptability: CSU
Theory and practice in rebuilding diesel engines. Topics for study include disassembly, cleaning, inspection, and analysis of engine parts. Also included are cylinder head service, sleeve and piston service, advanced machining and measuring techniques.

DMT 201  Diesel Engine Rebuilding II  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in DMT 200
Transfer acceptability: CSU
Theory and practice in rebuilding diesel engines. Topics for study include final cleaning, inspection and reassembly of engine parts. Also included are assembly measuring, torque procedures and torque-turn methods used on engine assembly, and engine testing upon completion of assembly.

Digital Broadcast Arts (DBA)

Contact the Media Studies Department for further information, (769) 744-1150, ext. 2440
Office: P-31
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Broadcast Journalism (CP)

Provides a background in print journalism and broadcast journalism: practical experience in gathering, writing, editing and producing news. This certificate prepares students for employment in the television news industry.

CERTIFICATE OF PROFICIENCY

Program Requirements  Units

JOUR 101  Multimedia Writing and Reporting  3
JOUR 105  Multimedia News Writing and Production  3
DBA/ENTT 120  Digital Television Production  3
DBA 240B  Beginning Television News/Sports  3
DBA 240D  Advanced Television News/Sports  3

TOTAL UNITS  15

The Broadcast Journalism Certificate of Proficiency is also listed under Journalism.
### Digital Media (CP)

This program encompasses digital video editing in digital media. The certificate prepares students for employment in the film, video, Internet, and television industries. Major growth in this industry is anticipated as Internet and television merge into one medium.

#### CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE/DBA 125 Beg Film/Video Field Production</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>GCMW 165 Digital Video Design</td>
<td>3</td>
</tr>
<tr>
<td>CINE/DBA 270 Digital Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>DBA 275 Avid Editing for Television &amp; Film</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 204 Motion Graphics for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 205 Digital Video for Multimedia</td>
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<tr>
<td>TOTAL UNITS</td>
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</table>

Digital Media Certificate of Proficiency is also listed under Graphic Communications-Multimedia and Web.

### Digital Video (AS, CA)

Digital Video encompasses editing and design in using digital media. This degree prepares students for employment in the film, video, Internet, and television industries.

#### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GCIP 140 Digital Imaging/Photoshop I</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 165 Digital Video Design</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 204 Motion Graphics for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 205 Digital Video for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>DBA/CINE 125 Beginning Single Camera Film and Video Production</td>
<td>3</td>
</tr>
<tr>
<td>DBA 230 Digital Audio with Pro Tools</td>
<td>3</td>
</tr>
<tr>
<td>CINE/DBA 270 Digital Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>DBA 275 Avid Editing for Television and Film</td>
<td>3</td>
</tr>
<tr>
<td>Electives (2 courses required, 6 units minimum)</td>
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<tr>
<td>ARTI 246 Digital 3D Design and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ARTI 247 Digital 3D Design and Animation</td>
<td>3</td>
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<tr>
<td>DBA 50 Basic Television Acting</td>
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<tr>
<td>DBA 110 Broadcast and Media Writing</td>
<td>3</td>
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<tr>
<td>DBA 150 Performance and Acting for Broadcast and Film</td>
<td>3</td>
</tr>
<tr>
<td>DBA/CINE 170 Introduction to Video Editing</td>
<td>3</td>
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<tr>
<td>DT 180 3D Studio Max - Introduction to 3D Modeling and Animation</td>
<td>3</td>
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<tr>
<td>ENTT/DBA 120 Digital Television Studio Production</td>
<td>3</td>
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<tr>
<td>GCMW 101 Multimedia I</td>
<td>3</td>
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<tr>
<td>GCMW 104 Intro to Audio and Video for Post Production</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 201 Multimedia II</td>
<td>3</td>
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<tr>
<td>GCMW 203 Web Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 206 Motion Graphics Production and Compositing</td>
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<tr>
<td>GCIP 141 Digital Imaging/Photoshop II</td>
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</tr>
<tr>
<td>GCMW 229 Content Publishing for Mobile,Web and Apps</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 152 Digital Publishing/Illustrator I</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 240 Digital Imaging/Photoshop III</td>
<td>3</td>
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<tr>
<td>DBA/CINE 225 Intermediate Single Camera Film and Video Production</td>
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<tr>
<td>GCIP 168 Digital Imaging with Drones</td>
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<td>TOTAL UNITS</td>
<td>30</td>
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</tbody>
</table>

Digital Video A.S. Degree Major or Certificate of Achievement is also listed under Graphic Communications-Multimedia and Web.

### Entertainment Technology (CA)

This program will prepare students for employment in the fields of entertainment technologies at entry level. The areas of potential employment include theme parks, casinos, cruise ships, concerts, gallery display and design, event installations, live event technical support, and theatre venues providing non-theatre related events. Basic rigging and production safety will be a component of this program.

#### CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CSNT 110 Hardware and O.S. Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>DBA 100 Introduction to Radio and TV</td>
<td>3</td>
</tr>
<tr>
<td>ENTT/DBA 120 Digital Television Studio Production</td>
<td>3</td>
</tr>
<tr>
<td>ENTT/TA 105 Introduction to Technical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>ENTT/TA 107 Lighting for Stage and Television</td>
<td>3</td>
</tr>
<tr>
<td>TA/ENTT/ MUS 112 Basic Sound Reinforcement</td>
<td>3</td>
</tr>
<tr>
<td>TA/ENTT/ TA/DNCE/ ENTT 124 Beginning Stage Management</td>
<td>3</td>
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<tr>
<td>TA 192A Technical Theatre Practicum I</td>
<td>1-2</td>
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<tr>
<td>Elective Courses (select 10 units):</td>
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<tr>
<td>TA/FASH/</td>
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<tr>
<td>ENTT106A Basic Costume I:Technology</td>
<td>3</td>
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<tr>
<td>TA/ENTT 108 Stagecraft and Scene Design for Theatre and Television</td>
<td>3</td>
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<tr>
<td>TA/FASH 109 Elementary Stage Make-Up</td>
<td>3</td>
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<tr>
<td>TA 111 Technical Theatre Production</td>
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<td>TA/ENTT/ MUS 114 Advanced Sound Reinforcement</td>
<td>2</td>
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<tr>
<td>TA/ENTT 170 Computer Aided Drafting for Theatre</td>
<td>2</td>
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<tr>
<td>TA/ENTT 171 Advanced Lighting Lab</td>
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<tr>
<td>TA 192B Technical Theatre Practicum II</td>
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<td>TA 192C Technical Theatre Practicum III</td>
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<td>TA 192D Technical Theatre Practicum IV</td>
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<tr>
<td>DBA/ENTT 130 Radio Production</td>
<td>3</td>
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<tr>
<td>DBA 230 Digital Audio with Pro Tools</td>
<td>3</td>
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<tr>
<td>DBA 298A Beginning Broadcast Internship</td>
<td>3</td>
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<tr>
<td>DBA 298B Intermediate Broadcast Internship</td>
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<tr>
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<tr>
<td>ENTT 298C Advanced Broadcast Internships</td>
<td>3</td>
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<tr>
<td>FASH 126 Fashion Show Presentation</td>
<td>3</td>
</tr>
<tr>
<td>FASH 135 Introductory Sewing for Apparel</td>
<td>3</td>
</tr>
<tr>
<td>FASH 139 Pattern Making/Fashion Design</td>
<td>3</td>
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<tr>
<td>WELD 100 Welding I</td>
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<td>TOTAL UNITS</td>
<td>34</td>
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</tbody>
</table>

Entertainment Technology Certificate of Achievement also listed in Entertainment Technology and in Theatre Arts.

### Radio and Television (AA, CA)

Provides entry-level skills in the field of digital radio and television broadcasting. Offers hands on experience in Digital broadcasting including Television news and sports. Broadcast journalism is a strong aspect of the program.

#### A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBA 100 Introduction to Radio and TV</td>
<td>3</td>
</tr>
<tr>
<td>DBA 110 Broadcast Writing and Producing</td>
<td>3</td>
</tr>
<tr>
<td>DBA/ENTT 120 Digital Television Production</td>
<td>3</td>
</tr>
<tr>
<td>DBA/ENTT 130 Radio Production</td>
<td>3</td>
</tr>
<tr>
<td>DBA/CINE 170 Introduction to Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>-------------</td>
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</tr>
<tr>
<td>DBA 220</td>
<td>TV Production and Directing</td>
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<tr>
<td>or</td>
<td>*DBA 230  Digital Audio Avid Pro Tools</td>
</tr>
<tr>
<td>DBA 240A</td>
<td>Basic Television News/Sports</td>
</tr>
<tr>
<td>DBA 298A</td>
<td>Beginning Broadcast Internship</td>
</tr>
<tr>
<td></td>
<td><strong>Electives (Select 6 units)</strong></td>
</tr>
<tr>
<td>DBA 100L</td>
<td>Introduction to Radio and Television Laboratory</td>
</tr>
<tr>
<td>DBA 135A</td>
<td>Basic Radio Station Operations</td>
</tr>
<tr>
<td>DBA 135B</td>
<td>Beginning Radio Station Operations</td>
</tr>
<tr>
<td>DBA 135C</td>
<td>Intermediate Radio Station Operations</td>
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<tr>
<td>DBA 135D</td>
<td>Advanced Radio Station Operations</td>
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<td>DBA 140</td>
<td>Radio News</td>
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<tr>
<td>DBA 150</td>
<td>Performance and Acting for Broadcast and Film</td>
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<tr>
<td>DBA 180</td>
<td>Sports Broadcasting</td>
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<tr>
<td>DBA 230</td>
<td>Digital Audio with Pro Tools</td>
</tr>
<tr>
<td>DBA 240B</td>
<td>Beginning Television News/Sports</td>
</tr>
<tr>
<td>DBA 240C</td>
<td>Intermediate Television News/Sports</td>
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<tr>
<td>DBA 240D</td>
<td>Advanced Television News/Sports</td>
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<tr>
<td>DBA/CINE 270</td>
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<tr>
<td>DBA/CINE 275</td>
<td>Avid Editing for Television and Film</td>
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<tr>
<td>DBA 298A</td>
<td>Intermediate Broadcast Internship</td>
</tr>
<tr>
<td>BUS 150</td>
<td>Advertising</td>
</tr>
<tr>
<td>CINE/DBA 115</td>
<td>Creative Writing for Television and Cinema</td>
</tr>
<tr>
<td>CINE/DBA 125</td>
<td>Beginning Film and Video Field Production</td>
</tr>
<tr>
<td>CINE/DBA 225</td>
<td>Intermediate Film and Video Field Production</td>
</tr>
<tr>
<td>TA/ENTT 107</td>
<td>Lighting for Stage and Television</td>
</tr>
<tr>
<td>TA/ENTT 108</td>
<td>Stagecraft and Scene Design for Theatre and TV</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL UNITS</strong></td>
</tr>
</tbody>
</table>

*Students who are not planning to transfer to four-year university and who have a ratio emphasis may substitute DBA 230 for DBA 220.

**COURSE OFFERINGS**

Courses numbered under 100 are not intended for transfer credit.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>DBA 100</td>
<td>Introduction to Radio and TV</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> May not be taken for Pass/No Pass grading</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A survey of American broadcasting, its development, impact and influence on our society; basic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>principles, mass communication theory, station operation</td>
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<tr>
<td></td>
<td>programming, advertising, rating services, cable television, regulation, and censorship; in depth analysis of current issues and developments.</td>
<td></td>
</tr>
<tr>
<td>DBA 100L</td>
<td>Introduction to Radio and Television Laboratory</td>
<td>(1)</td>
</tr>
<tr>
<td></td>
<td>3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> May not be taken for Pass/No Pass grading</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practice in use of radio and television studio equipment. Designed for students who are not Radio Television majors.</td>
<td></td>
</tr>
<tr>
<td>DBA 110</td>
<td>Broadcast Writing and Producing</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>1 ½ hours lecture - 4 ½ hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> May not be taken for Pass/No Pass grading</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Creating and developing ideas and materials for broadcast. Problems of timing, pacing, visualization, and expression. Techniques of scripting for radio and television.</td>
<td></td>
</tr>
<tr>
<td>DBA 115</td>
<td>Creative Writing for Television and Cinema</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Cross listed as CINE 115</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Instruction and practice in the art of dramatic script writing. Emphasis is placed on the development of the initial story idea into a viable, professional shooting script for television or film.</td>
<td></td>
</tr>
<tr>
<td>DBA 120</td>
<td>Digital Television Studio Production</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>1 ½ hours lecture - 4 ½ hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Cross listed as ENTT 120; may not be taken for Pass/No Pass grading</td>
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<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
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<tr>
<td></td>
<td>The course introduces theory, terminology, practices, and aesthetic considerations of visual and sound productions in a multi-camera television studio and control room. Topics include studio signal flow, directing, theory and operation of camera and audio equipment, switcher operation, fundamentals of lighting, graphics, video control and video recording and real-time video production.</td>
<td></td>
</tr>
<tr>
<td>DBA 125</td>
<td>Beginning Single Camera Film and Video Production</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>1 ½ hours lecture - 4 ½ hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Recommended preparation:</strong> CINE 100 or DBA 100L</td>
<td></td>
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<tr>
<td></td>
<td><strong>Note:</strong> Cross listed as CINE 125</td>
<td></td>
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<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU, UC – CINE/DBA 125 and 225 combined: maximum credit, one course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course provides an introduction to the theory, terminology, and operation of single camera film and video production as it applies to narrative storytelling for film and television. Areas of study include basic elements of screenwriting and production design, cinematography including camera operation, digital video and audio recording and basic editing techniques. It focuses on the aesthetics and fundamentals of scripting, producing, directing on location, postproduction and exhibition/distribution. Students may shoot on Super 8mm, 16mm film or digital video.</td>
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<tr>
<td>DBA 130</td>
<td>Radio Production</td>
<td>(3)</td>
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<tr>
<td></td>
<td>1 ½ hours lecture - 4 ½ hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Cross listed as ENTT 130; may not be taken for Pass/No Pass grading</td>
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<tr>
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<td><strong>Transfer acceptability:</strong> CSU</td>
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<tr>
<td></td>
<td>Techniques and theories of audio production in the preparation of radio programs. Use of audio mixing and recording equipment, editing and dubbing, microphone techniques and program construction. A program produced by the student will be broadcast on radio station KKSM.</td>
<td></td>
</tr>
<tr>
<td>DBA 135A</td>
<td>Basic Radio Station Operations</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>9 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite:</strong> A minimum grade of ‘C’ in DBA/ENTT 130</td>
<td></td>
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<tr>
<td></td>
<td><strong>Note:</strong> May not be taken for Pass/No Pass grading</td>
<td></td>
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<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to radio station operations and audio production skills along with practical exercises using broadcast equipment and techniques.</td>
<td></td>
</tr>
<tr>
<td>DBA 135B</td>
<td>Beginning Radio Station Operations</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>9 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite:</strong> A minimum grade of ‘C’ in DBA 135A</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> May not be taken for Pass/No Pass grading</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beginning radio station operations and audio production skills with emphasis on developing a format radio show.</td>
<td></td>
</tr>
<tr>
<td>DBA 135C</td>
<td>Intermediate Radio Station Operations</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>9 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite:</strong> A minimum grade of ‘C’ in DBA 135B</td>
<td></td>
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<tr>
<td></td>
<td><strong>Note:</strong> May not be taken for Pass/No Pass grading</td>
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</tr>
<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intermediate radio station operations and audio production skills with emphasis on creating a unique radio show.</td>
<td></td>
</tr>
<tr>
<td>DBA 135D</td>
<td>Advanced Radio Station Operations</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>9 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite:</strong> A minimum grade of ‘C’ in DBA 135C</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> May not be taken for Pass/No Pass grading</td>
<td></td>
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<tr>
<td></td>
<td><strong>Transfer acceptability:</strong> CSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced radio station programming and audio production editing. Special emphasis in broadcast management training.</td>
<td></td>
</tr>
</tbody>
</table>
DBA 150 Performance and Acting for Broadcast and Film  
1½ hours lecture - 4½ hours laboratory  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Techniques of preparation and delivery of materials before microphone and camera.

DBA 170 Introduction to Video Editing  
1½ hours lecture - 4½ hours laboratory  
**Note:** Cross listed as CINE 170; may not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Covers the technical and theoretical aspects of film and video editing. Provides an introduction to the basic techniques, elements of editing language, the various technical processes used, introduction to Final Cut Pro software, as well as the related skills necessary for editing digital media.

DBA 180 Sports Broadcasting  
1½ hours lecture - 4½ hours laboratory  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Sports broadcasting: anchoring, reporting, play-by-play, and color announcing techniques.

DBA 197 Radio and Television Topics  
1½ hours lecture - 4½ hours laboratory  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Topics in Radio and Television. See Class Schedule for specific topic offered. Course title will designate subject covered.

DBA 220 TV Production and Directing  
1½ hours lecture - 4½ hours laboratory  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Techniques and theories of television production and direction. Practice in pre production planning, staging, studio production, and editing. Duties and responsibilities of director and production crew. Production of fully scripted television programs for airing on cable and broadcast stations.

DBA 225 Intermediate Single Camera Film and Video Production  
1½ hours lecture - 4½ hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in CINE/DBA 125  
**Note:** Cross listed as CINE 225  
**Transfer acceptability:** CSU; UC – CINE/DBA 125 and 225 combined: maximum credit, one course.  
This course goes beyond the basics to provide a more extensive study of the theory, terminology, and operation of single camera film and video production as it applies to narrative and documentary film and television. Topics include basic cinematography including the operation, function and creative uses of production and post-production equipment, scriptwriting, camera operation, shot composition, lighting, sound recording and mixing, and editing. Students may shoot on Super 8mm, 16mm film or digital video.

DBA 230 Digital Audio Avid Pro Tools  
1½ hours lecture - 4½ hours laboratory  
**Transfer acceptability:** CSU  
Principles and techniques of editing radio, television, and film audio projects using Avid Pro Tools software and technology. Digitizing audio source material, working knowledge of Avid Pro Tools interface, use of multi-track audio editing system, mic and recording techniques.

DBA 240A Basic Television News/Sports  
1½ hours lecture - 4½ hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in DBA/ENTT 120; completion of, or concurrent enrollment in DBA/ENTT 120  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Basic principles of broadcast scripting, gathering, and editing of television news and/or sports. Learn the technical studio production elements of a news or sports cast.

DBA 240B Beginning Television News/Sports  
1½ hours lecture - 4½ hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in DBA 240A  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Students perform as members of the TV News and Sports broadcast team at a beginning level. Students will assist in the production of the College’s various live newscasts and sportscasts for airing on cable television, and will participate in a variety of TV broadcast roles.

DBA 240C Intermediate Television News/Sports  
1½ hours lecture - 4½ hours laboratory  
**Prerequisite:** A minimum grade of ‘C’ in DBA 240B  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Intermediate level skills are applied as members of the on-air crew and production team, producing TV News and Sports broadcasts. Students will produce the College’s various live newscasts and sportscasts for airing on cable television, participating in a variety of TV broadcast roles.

DBA 240D Advanced Television News/Sports  
1½ hours lecture - 4½ hours laboratory  
**Recommended preparation:** DBA 240C  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Advanced principles and application of techniques and theory of local TV News reporting, sports reporting, news gathering, producing, and editing an ongoing weekly TV news/local news/programs program. Production of newscasts for airing on cable television.

DBA 270 Digital Video Editing  
1½ hours lecture - 4½ hours laboratory  
**Note:** Cross listed as CINE 270  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Principles and techniques of digital non-linear video editing for broadcast TV and film. Overview of Adobe Premiere software program. Application of professional operational and aesthetic editing principles.

DBA 275 Avid Editing for Television and Film  
1½ hours lecture - 4½ hours laboratory  
**Note:** Cross listed as CINE 275  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Principles and techniques of editing video and film projects using Avid technology. Digitizing source material, storyboarding, timeline, audio editing, importing and exporting graphics, outputting, and media management.

DBA 298A Beginning Broadcast Internship  
9 hours laboratory  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU  
Beginning internships at radio and television broadcast stations, Palomar College TV, cable companies, and other communications facilities. Prior internship experience not required; assumes entry-level skills and production experience. May involve entry-level work on independent productions including research, scripting, and pre-production planning.
Disability Resource (DR)

Contact the Disability Resource Center for further information.
760-744-1150, ext. 2375
Office: DSPS

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.
Courses numbered under 100 are not intended for transfer credit.

DR 10  Educational Assessment/Guidance  (0.5)
3 hours laboratory
½ hour lecture
This individualized course is designed to assess and identify strengths and weaknesses for the purpose of identifying learning disabilities following the California Community College eligibility model. This assessment will help identify student’s need for academic accommodations in the community college setting. The student will be counseled in planning appropriate educational goals and strengthen the student’s understanding of the results and applications of his/her learning disabilities.

DR 15  English Essentials for Students with Disabilities  (3)
3 hours lecture
Note: Pass/No Pass grading only; Students must have the ability to learn in a group setting. Students must be able to produce computer generated work by using the keyboard or other assistive technology.
Non-degree Applicable
Provides special assistance for students with disabilities to develop basic skills in written communication. Working with computers is part of the class format.

DR 20  Pre-Algebra Support  (3)
3 hours lecture
Note: Pass/No Pass grading only
Non-degree Applicable
Provides programmed instruction on an individual and/or small group basis to students with disabilities. Practice in understanding and performing basic arithmetic tasks necessary for successful functioning in society.

DR 25  Algebra Support  (1.5,3)
1½ or 3 hours lecture
Recommended preparation: MATH 15 or eligibility for MATH 50
Note: Pass/No Pass grading only
Non-degree Applicable
Provides personalized instruction in basic study management techniques for the support of students with disabilities in mainstream classes. The course will help students with disabilities to develop specialized study techniques and interpersonal skills needed for success in mainstream classes.

DR 40  Adapted Computer Skills  (3)
3 hours lecture
Non-degree Applicable
Provides computer training using specialized software and hardware adaptations to assist students with disabilities to develop skills in word processing and Internet research.

DR 41  Advanced Adapted Computers for Students with Disabilities  (3)
3 hours lecture
Recommended preparation: DR 40
Non-degree Applicable
Provides training in more advanced software for students with disabilities by using their prescribed access technology.

DR 43.1  Software for Students with Vision Loss I  (3)
3 hours lecture
Recommended Preparation: Keyboarding skills with a minimum of 15 words per minute
Non-degree Applicable
Provides training using specialized software and hardware adaptations to assist students with blindness/low vision to develop computer skills.

DR 43.2  Software for Students with Vision Loss II  (3)
3 hours lecture
Recommended Preparation: Keyboarding skills with a minimum of 15 words per minute along with prior experience with a screen reading or magnification application
Non-degree Applicable
Provides training using specialized software and hardware adaptations in combination with Microsoft Office, Internet Explorer, and other academic applications.

DR 44  Study Skills with Technology  (0.5)
0.5 hours lecture
Improve study skills through the use of software and other assistive technologies.

DR 45L  Adapted Computer Laboratory  (1)
3 hours laboratory
Note: Pass/No Pass grading only
Non-degree Applicable
Provides supervised hands on opportunities to acquire and reinforce skills on computer equipment adapted for students with disabilities.

DR 47  Topics in Disability Resource  (.5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Non-degree Applicable
Topics in disability resource. See Class Schedule for specific topic offered. Course title will designate subject covered.
Drafting Technology (DT)

Contact the Trade and Industry Department for further information.
760-744-1150, ext. 2545
Office: T-102A

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Computer Assisted Drafting (AS, CA)

Prepares students in the skills necessary for employment as a computer assisted drafting operator.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>DDT/ENGR 101 AutoCAD Introduction to Computer Aided Drafting</td>
<td>3</td>
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<tr>
<td>DT/ENGR 102 Advanced AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 103 SolidWorks Introduction to 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 104 SolidWorks Advanced 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>IT/WELD 108 Technical Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 50 Beginning Algebra</td>
<td>4</td>
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<tr>
<td>or MATH 50A Beginning Algebra Part I</td>
<td>2</td>
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<tr>
<td>and MATH 50B Beginning Algebra Part II</td>
<td>2</td>
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<tr>
<td>or MATH 56 Beginning/Intermediate Algebra</td>
<td>6</td>
</tr>
<tr>
<td>or MATH 60 Intermediate Algebra</td>
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Electives (Select 15 units)

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<th>Program Requirements</th>
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<tr>
<td>ARCH 200 Advanced Computer Aided Drafting</td>
<td>4</td>
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<tr>
<td>CE 100 Cooperative Education</td>
<td>1-4</td>
</tr>
<tr>
<td>DT/ENGR 110 Technical Drafting I with AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 111 Technical Drafting II with AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 117 Geometric Dimensioning and Tolerancing</td>
<td>2</td>
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<tr>
<td>DT 196 Special Problems in Computer Aided Drafting</td>
<td>1-3</td>
</tr>
<tr>
<td>ARCH 202 Introduction to Revit Architecture</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 226 Printed Circuit Board Design</td>
<td>3</td>
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<tr>
<td>MATH 110 College Algebra</td>
<td>4</td>
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<tr>
<td>or MATH 115 Trigonometry</td>
<td>3</td>
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</table>

TOTAL UNITS 30 - 33

Drafting Technology - Multimedia (AS, CA)

Prepares students in the skills necessary for employment in the multimedia presentation field.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDT/ENGR 101 AutoCAD Introduction to Computer Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 103 SolidWorks Introduction to 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 110 Technical Drafting I with AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 111 Technical Drafting II with AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>DT/WELD/ENGR 117 Geometric Dimensioning and Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>DT 197 Drafting Technology Topics</td>
<td>0.5 - 4</td>
</tr>
<tr>
<td>IT/WELD 108 Technical Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 50A Beginning Algebra Part I</td>
<td>2</td>
</tr>
<tr>
<td>and MATH 50B Beginning Algebra Part II</td>
<td>2</td>
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<tr>
<td>or MATH 50 Beginning Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 60 Intermediate Algebra</td>
<td>4</td>
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</table>

TOTAL UNITS 29 - 30

Drafting Technology - Technical (AS, CA)

Prepares students in the skills necessary for employment as a drafter in machine, mechanical, electrical, aeronautical, civil, and other related engineering fields.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT/ENGR 101 AutoCAD Introduction to Computer Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 103 SolidWorks Introduction to 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 104 SolidWorks Advanced 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 110 Technical Drafting I with AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>DT/ENGR 111 Technical Drafting II with AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>DT/WELD/ENGR 117 Geometric Dimensioning and Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>DT 197 Drafting Technology Topics</td>
<td>0.5 - 4</td>
</tr>
<tr>
<td>IT/WELD 108 Technical Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 50A Beginning Algebra Part I</td>
<td>2</td>
</tr>
<tr>
<td>and MATH 50B Beginning Algebra Part II</td>
<td>2</td>
</tr>
<tr>
<td>or MATH 50 Beginning Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 60 Intermediate Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS 27-28

See Catalog addendum at http://www.palomar.edu/catalog
Electro-Mechanical Drafting and Design (AS, CA)

Drafts detailed working drawings of electro-mechanical equipment and devices. Indicates dimensions, tolerances, materials, and manufacturing procedures for electro-mechanical drafting industry.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
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<tbody>
<tr>
<td>DT/ENGR 101</td>
<td>AutoCAD Introduction to Computer Aided Drafting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DT/ENGR 103</td>
<td>SolidWorks Introduction to 3D Design and Presentation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DT/ENGR 110</td>
<td>Technical Drafting I with AutoCAD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DT/ENGR 111</td>
<td>Technical Drafting II with AutoCAD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DT/WELD/</td>
<td>ENGR 117</td>
<td>Geometric Dimensioning and Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>DT/ENGR 226</td>
<td>Printed Circuit Board Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DT/ENGR 227</td>
<td>Advanced Printed Circuit Board Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>IT/WELD 108</td>
<td>Technical Mathematics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>MATH 50A</td>
<td>Beginning Algebra Part I</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>MATH 50B</td>
<td>Beginning Algebra Part II</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>MATH 50</td>
<td>Beginning Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MATH 60</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (Select 3 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 100</td>
<td>Cooperative Education</td>
<td>1 - 4</td>
</tr>
<tr>
<td>DT/ENGR 102</td>
<td>Advanced AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>DT/WELD/</td>
<td>ENGR 151</td>
<td>CAD/CAM Machining</td>
</tr>
<tr>
<td>DT/ENGR 104</td>
<td>SolidWorks Advanced 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>DT 196</td>
<td>Special Problems in Computer Aided Drafting</td>
<td>1 - 3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL UNITS 26-27

COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 101</td>
<td>AutoCAD Introduction to Computer Aided Drafting</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR 101.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU; UC – DT/ENGR 101 and 102 combined: maximum credit, one course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

An introduction to computer aided drafting using AutoCAD software and IBM compatible computers. Hands on experience with AutoCAD to include the following operations: preparing and editing drawings, storage and retrieval of drawings, and production of commercial quality drawings on a plotter. Introductory computer terminology and techniques in Windows.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 102</td>
<td>Advanced AutoCAD</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Prerequisite:</td>
<td>A minimum grade of 'C' in DT/ENGR 101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR 102.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU; UC – DT 101 and 102 combined: maximum credit, one course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Advanced theory and hands on operation of a CAD system. Emphasis is placed on large scale drawings, three dimensional software techniques, orthographic projections, and complex computer aided manufacturing applications.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 103</td>
<td>SolidWorks Introduction to 3D Design and Presentation</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR 103.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU</td>
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</tr>
</tbody>
</table>

Advanced theory and hands on operation of three-dimensional software techniques. Emphasis is placed on wireframe, surface, solid, and parametric three-dimensional modeling.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 104</td>
<td>SolidWorks Advanced 3D Design and Presentation</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Prerequisite:</td>
<td>A minimum grade of 'C' in DT/ENGR 103</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR 104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU</td>
<td></td>
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</tr>
</tbody>
</table>

Advanced theory and hands-on operation of solid and parametric three-dimensional models. Emphasis is placed on creating molds, advanced sheet metal design and developing dynamic assemblies.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 110</td>
<td>Technical Drafting I with AutoCAD</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Prerequisite:</td>
<td>A minimum grade of 'C' in DT/ENGR 101, or concurrent enrollment in DT/ENGR 101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR 110.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU</td>
<td></td>
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</tr>
</tbody>
</table>

Fundamentals of drafting including lettering, sketching, geometric constructions, orthographic projections, basic dimensional, sectional views and auxiliary views. Drafting will be performed on the computer using AutoCAD, SolidWORKS, and Creo software.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 111</td>
<td>Technical Drafting II with AutoCAD</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Prerequisite:</td>
<td>A minimum grade of 'C' in DT/ENGR 110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR 111.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU</td>
<td></td>
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</tr>
</tbody>
</table>

Advanced drafting practices using customized AutoCAD software. Basic studies will include pictorial drafting, descriptive geometry, and revolutions. Working/ shop drawings in topography, developments, cabinet/millwork, structural steel, and welding will be performed. Emphasis is placed on increased productivity by customizing AutoCAD to the student's requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 113</td>
<td>Solid Modeling for Engineering I</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR 113.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU; UC</td>
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</tbody>
</table>

Solid modeling, assemblies and drawings using Creo and SolidWorks.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 117</td>
<td>Geometric Dimensioning and Tolerancing</td>
<td>1 hour lecture - 3 hours laboratory</td>
<td>(2)</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR/WELD 117.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

An introduction to geometric dimensioning and tolerancing ASME Y14.5-2009. Students will learn to identify, use appropriate geometric symbols and techniques of geometric dimension, and produce industrial quality drawings. Students will also learn to measure and verify geometric dimensions and tolerances of manufactured items.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 151</td>
<td>CAD/CAM Machining</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as ENGR/WELD 151</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU</td>
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</tbody>
</table>

Hands-on operation of importing three-dimensional solid and parametric three-dimensional models into CAD/CAM operations.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 180</td>
<td>3D Studio Max – Introduction to 3D Modeling and Animation</td>
<td>1½ hours lecture - 4½ hours laboratory</td>
<td>(3)</td>
</tr>
<tr>
<td>Transfer acceptability:</td>
<td>CSU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

An overview of 3D Studio Max. Hands-on operation of the software to produce basic three-dimensional models and basic technical animations.
DT 182 3D Studio Max – Advanced 3D Modeling and Animation (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in DT 180
Transfer acceptability: CSU
Advanced 3D Studio Max applications to create special visual effects for high-end image production. Advanced keyframing, time-based editing, controllers, and video post will be employed to master state-of-the-art rendering and animation. The class is structured to help students start using 3D Studio Max in a production environment.

DT 184 Real Time 3D Technical/Game Animation (2)
1 hour lecture - 3 hours laboratory
Transfer acceptability: CSU
Students will create interactive 3D applications using a direct X base real time engine for the game industry, computer based training and product visualization.

DT 190 Manufacturing I Introduction to MasterCAM (3)
1½ hours lecture - 4½ hours laboratory
Note: Cross listed as IT 190/ENGR 190/WEED 190
This course will introduce the students to MasterCAM and 2D and basic 3D modeling. Students will receive instructions and drawings of parts requiring 2- or 3-axis machining. Students will design, model, program, set-up and run their parts on various machines, including plasma cutters, water jet cutters and milling machines.

DT 196 Special Problems in Computer Aided Drafting (1, 2, 3)
3, 6, or 9 hours laboratory
Transfer acceptability: CSU
An advanced course designed to aid the student in the enrichment of an area of concentration in AutoCAD and third party drafting software and is of a research nature. Content to be determined by the need of the student under signed contract with the instructor.

DT 197 Drafting Technology Topics (0.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Drafting. See class schedule for specific topic covered. Course title will designate subject covered.

DT 226 Printed Circuit Board Design (3)
1½ hours lecture - 4½ hours laboratory
Note: Cross listed as as ENGR 226
Transfer acceptability: CSU
Instruction in printed circuit board design generally required for entry level positions in the electronic industry. Includes artwork and complete documentation for analog and digital multi-layer, flexible and high-speed boards using current IPC standards. Drafting will be performed on the computer using high-end printed circuit board software.

DT 227 Advanced Printed Circuit Board Design (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in DT/ENGR 226
Note: Cross listed as as ENGR 227
Transfer acceptability: CSU
Advanced problems and instruction in printed circuit board design generally required for entry-level position in the electronic industry. Special emphasis will be placed on advanced applications including surface mount technology. Includes artwork and complete documentation for analog and digital multi-layer, flexible and high-speed boards using current IPC standards. Drafting will be performed on the computer using AutoCAD and PADS software.
ECON 295 Directed Study in Economics  3
IBUS 100 Intro to Int'l Business Management  3

Group II (Select 7-8 units)
MATH 110 College Algebra  4
MATH 120 Elementary Statistics  4
MATH 130 Calculus for the Social Sciences  4

Group III (Select 3 units)
CSIT 105 Computer Concepts and Applications  3
PHIL 200 Critical Thinking  3

TOTAL UNITS  23

Economics (AA-T)
The Associate in Arts in Economics for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Economics. The Associate in Arts in Economics for Transfer provides lower division preparation for pursuing advanced studies in economics or prepares a complementary base for many professions and areas of interest including business administration, law, engineering, journalism, public administration, and environmental studies. Transfer students are strongly encouraged to take 6 units of Economic elective courses: Econ 110 (Comparative Economic Systems), Econ 115 (Economic History of the United States), Econ 120 (Environmental Economics), and/or Econ 125 (Introduction to Labor Studies).

Pursuant to SB1440, the following completion requirements must be met:
(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
(2) Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

Required Core (12-13 units)
ECON 101 Principles of Economics (Macro)  3
ECON 102 Principles of Economics (Micro)  3
MATH 120 Elementary Statistics  4
MATH 130 Calculus for Business and the Social Sciences  4
or
MATH 140 Calculus with Analytic Geometry, First Course  5

List A: Select One (3-4 Units)
BUS 205 Business Communication  3
BUS 104 Business Information Systems  3
CSIT 105 Computer Concepts and Applications  3
or
CSIT 125 Computer Information Systems  3

List B: Select one course from List A not already used or choose one course from the following: (3-4 units)
ECON 110 Comparative Economic Systems  3
ECON 115 Economic History of the United States  3
ECON 120 Environmental Economics  3
ECON 125 Introduction to Labor Studies  3
ECON 295 Directed Study in Economics  3

TOTAL UNITS  20 – 21

*COURSE OFFERINGS*

**ECON 100 Basic Economics**
3 hours lecture
*Note:* Not intended for programs which require Principles of Economics ECON 101 and/or 102

Transfer acceptability: CSU; UC – no credit if taken after ECON 101 or 102

A study of the American economic system as it affects the decision making of the individual as income earner, taxpayer, and voter. Emphasis is on application of the analyses of supply and demand, productivity, wages and the labor force, the money and banking system, the role of government, and domestic and international economic issues.

**ECON 101 Principles of Economics (Macro)**
3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 56, or MATH 60, or eligibility determined through the math placement process.

Transfer acceptability: CSU; UC

A study of various types of economic institutions and decision making systems. Emphasis is given to the theories of capitalism, Marxian economics, and the various types of social market economies. The theories will be applied to the study of several countries, including the former Soviet Union, Japan, China, Mexico, and a Western European country, as they compare to the United States.

**ECON 102 Principles of Economics (Micro)**
3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 56, or MATH 60, or eligibility determined through the math placement process.

Transfer acceptability: CSU; UC

A study of various types of economic institutions and decision making systems. Emphasis is given to the theories of capitalism, Marxian economics, and the various types of social market economies. The theories will be applied to the study of several countries, including the former Soviet Union, Japan, China, Mexico, and a Western European country, as they compare to the United States.

**ECON 110 Comparative Economic Systems**
3 hours lecture
Transfer acceptability: CSU; UC

A study of various types of economic institutions and decision making systems. Emphasis is given to the theories of capitalism, Marxian economics, and the various types of social market economies. The theories will be applied to the study of several countries, including the former Soviet Union, Japan, China, Mexico, and a Western European country, as they compare to the United States.

**ECON 115 Economic History of the United States**
3 hours lecture
Transfer acceptability: CSU; UC

Development of the United States economy from the colonial period to the present. Emphasis will be on the evolution of such institutions as labor unions, business, banking, and government. Economic theory will be used to analyze historical problems.

**ECON 120 Environmental Economics**
3 hours lecture
Transfer acceptability: CSU; UC

A study of major environmental issues from an economics perspective. Models will be developed and used to explore case studies on issues and policies. A strong emphasis will be placed on resource management problems. Course will provide a rationale for government involvement in the market-based economy.

For more information on this major at CSUSM, please refer to the articulation agreement at ASSIST.ORG.
ECON 125 Introduction to Labor Studies (3)
3 hours lecture
Transfer acceptability: CSU-UC
An introduction to Labor Studies. The focus is on how fundamental work is to human relations and the creation of communities. Moreover, the course examines how work, workers and organizations and institutions shape and define the employment relationship. Surveys how class, race, ethnicity, and gender impact work; the role of corporations; the role of unions; the global economy, and the future of work.

ECON 197 Economics Topics (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU-UC – Credit determined by UC upon review of course syllabus.
Topics in Economics. See Class Schedule for specific topic offered. Course title will designate subject covered.

ECON 295 Directed Study in Economics (1, 2, 3)
1, 2, or 3 hours lecture
Transfer acceptability: CSU-UC – Credit determined by UC upon review of course syllabus.
Indepedent study for students who have demonstrated a proficiency in economics subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Emergency Medical Education (EME)
Contact the Emergency Medical Education Department for further information.
760-744-1150, ext. 8150
Office: ESC-808
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

College Credit for Certified Paramedics
This policy is for granting college credit for certified paramedics toward an Associate in Arts degree in Emergency Medical Technician Paramedic. In order for an already certified Paramedic to be granted college units for his/her certification, the following requirements must be met:

1. The EMT P must be currently certified in California as an EMT P.
2. The EMT P must be currently registered at Palomar College.

EMT P Credit
1. The student may receive a maximum of 40.5 units for EMT P training, which is equal to the number of units given at Palomar College for the EMT P courses.
2. The student may receive a maximum of 7 units for former EMT B training, which is equal to the number of units given at Palomar College for the EMT B courses.
3. The student may not receive duplicate credit for any other EMT B or EMT P courses.

Degree Requirements
The Associate in Science degree in Emergency Medical Technician Paramedic requires 60 units. The following criteria must be met:

1. 30 units must be issued by an accredited college on a letter grade basis, of which 12 units must be completed at Palomar College.
2. All other general education and competency requirements for the Associate in Science degree as provided in the college catalog must be met.

3. When the student has completed the general education and competency requirements for the Associate in Science degree and the 12 units required to be completed at Palomar College, the student will be awarded unit credit for education/training received in becoming an EMT P.

Paramedics interested in taking advantage of this policy should contact the Emergency Medical Education Department at (760) 744-1150, ext. 8150. Paramedics will be required to provide a copy of his or her paramedic license and course completion certificate for verification of paramedic licensure. Paramedics must also send prior college transcripts to the College and make an appointment with the Counseling Department at (760) 744-1150, ext. 2179 for evaluation of general education requirements.

PROGRAMS OF STUDY

EMT Basic (CP)
This program prepares the student with the knowledge and skills necessary to take the National Registry EMT examination and enter the workforce in the State of California.

CERTIFICATE OF PROFICIENCY

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 100/HE 104</td>
<td>Emergency Medical Responder</td>
<td>3</td>
</tr>
<tr>
<td>EME 106</td>
<td>Emergency Medical Technician (Lecture)</td>
<td>6</td>
</tr>
<tr>
<td>EME 106L</td>
<td>Emergency Medical Technician Skills (Laboratory)</td>
<td>1.5</td>
</tr>
</tbody>
</table>

TOTAL UNITS 10.5

Paramedic Training (AS, CA)
The Paramedic Program prepares the student in all elements of prehospital advanced life support. Upon successful completion of the program, the student is eligible to take the State of California EMT-P certification exam, which is the National Registry Emergency Medical Technician-Paramedic Exam.

Admission to the program is by special application. To be eligible for consideration, the applicant must:

1. Have 6 months full-time pre-hospital experience or equivalent as an EMT Basic.
2. Be eligible for admission to Palomar College.
3. Meet academic requirements outlined in the Paramedic Program brochure produced by the EME Program.

AND
4. Have completed ZOO 145 OR BIOL 145 with a grade of ‘C’ or better and EME 175 and EME 175L with a “B” or better.

Prerequisite Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 106</td>
<td>Emergency Medical Technician (Lecture)</td>
<td>6</td>
</tr>
<tr>
<td>EME 106L</td>
<td>Emergency Medical Technician Skills (Laboratory)</td>
<td>1.5</td>
</tr>
<tr>
<td>EME 175</td>
<td>Paramedic Preparation (Lecture)</td>
<td>2</td>
</tr>
<tr>
<td>EME 175L</td>
<td>Paramedic Preparation Skills (Laboratory)</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 145</td>
<td>Introduction to Anatomy and Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Students must achieve a minimum score of 80% in each of the required courses in order to continue in the program.

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 206</td>
<td>Introduction to Paramedic Training (Lecture)</td>
<td>5.5</td>
</tr>
<tr>
<td>EME 206L</td>
<td>Introduction to Paramedic Training (Laboratory)</td>
<td>1.5</td>
</tr>
<tr>
<td>EME 207</td>
<td>Paramedic Medical Training (Lecture)</td>
<td>10</td>
</tr>
<tr>
<td>EME 207L</td>
<td>Paramedic Medical Skills (Laboratory)</td>
<td>2</td>
</tr>
<tr>
<td>EME 208</td>
<td>Paramedic Trauma Training (Lecture)</td>
<td>4.5</td>
</tr>
</tbody>
</table>

See Catalog addendum at http://www.palomar.edu/catalog
EME 208L  Trauma Skills (Laboratory)  1
EME 209  Paramedic Obstetrical and Pediatric Training (Lecture)  2.5
EME 209L  Paramedic Obstetrical and Pediatric Skills (Laboratory)  1
EME 210  Hospital Clinical Experience  4
EME 211  Clinical Integration I  1.5
EME 212  Clinical Integration II  1.5
EME 215  Field Internship  9

TOTAL UNITS  44

Note: EME 220, 223, and/or 224 are to be taken by students who have not satisfactorily met program requirements. The EME Department will determine which course or courses should be taken and the number of hours required to make up the deficiencies.

The Palomar College Paramedic Training Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP), (2000117).

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit. EME courses may not be taken as an audit.

EME 100  Emergency Medical Responder (3)
3 hours lecture
Note: Cross listed as HE 104
Transfer acceptability: CSU; UC
C-ID KINE 101
Covers national curriculum for Emergency Medical Responder (EMR) training. Includes the study and application of emergency medical skills and procedures, including basic anatomy and physiology, terminology, and prevention of disease transmission. CPR certification from the American Heart Association.

EME 106  Emergency Medical Technician (Lecture) (6)
6 hours lecture
Prerequisite: Current American Heart Association CPR for Health Care Providers and Emergency Medical Response cards or equivalent, and must be age 18 by the first day of class
Corequisite: EME 106L
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU
The study of EMT theory and knowledge required for identification and treatment of pre-hospital emergencies. The course prepares the student for National Registry, California, and San Diego County EMT certification.

EME 106L  Emergency Medical Technician Skills (Laboratory) (1.5)
4½ hours laboratory
Prerequisite: Current American Heart Association CPR for Health Care Providers CPR and Emergency Medical Response cards or equivalent, and must be age 18 on the first day of EME 106
Corequisite: EME 106
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of skills required for treatment of pre-hospital emergencies. This course prepares the student for National Registry, California and San Diego County EMT certification. Student is required to complete 24 hours supervised ambulance and emergency department observation.

EME 175  Paramedic Preparation (2)
2 hours lecture
Prerequisite: Current EMT with a minimum of 3 months full time pre-hospital experience
Corequisite: EME 175L
Transfer acceptability: CSU
An overview of paramedic-level assessment skills combined with appropriate paramedic-level anatomy, physiology, and treatment relevant to the disease processes studied.

EME 175L  Paramedic Preparation Skills (Laboratory) (1)
3 hours laboratory
Prerequisite: Current EMT with a minimum of 3 months full time pre-hospital experience
Corequisite: EME 175
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Performance of EMT skills combined with appropriate paramedic-level anatomy, physiology and treatment relevant to the disease processes studied.

EME 203L  Paramedic Challenge Skills (Laboratory) (1.5)
1½ hours laboratory
Prerequisite: RN, MD, PA or former Paramedic who meets State of California challenge requirements
Corequisite: EME 203
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of skills necessary for challenge course for individuals who qualify for Paramedic Challenge per State of California Code of Regulations, Title 22. Allows the individual to attend the skills portion of Paramedic Training as needed to meet paramedic course content per individual student contract.

EME 206  Introduction to Paramedic Training (Lecture) (5.5)
5½ hours lecture
Prerequisite: Admission into Paramedic Program
Corequisite: EME 206L
Transfer acceptability: CSU
Introduction to paramedic training which meets the requirements of the National Educational Standards for Paramedic Training.

EME 206L  Introduction to Paramedic Training (Laboratory) (1.5)
4½ hours laboratory
Prerequisite: Admission into Paramedic Program
Corequisite: EME 206
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of skills necessary for the Introduction to Paramedic Training which meets the requirements of the National Educational Standards for Paramedic Training.

EME 207  Paramedic Medical Training (Lecture) (10)
10 hours lecture
Prerequisite: Admission into Paramedic program
Corequisite: EME 207L and EME 211
Transfer acceptability: CSU
The study of medical and cardiac diseases for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Advanced Cardiac Life Support training and certification.

EME 207L  Paramedic Medical Skills (Laboratory) (2)
6 hours laboratory
Prerequisite: Admission into Paramedic program
Corequisite: EME 207
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of skills necessary for the medical portion of paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Advanced Cardiac Life Support training and certification.
EME 208  Paramedic Trauma Training (Lecture)  (4.5)
4½ hours lecture
Prerequisite: Admission into Paramedic program
Corequisite: EME 208L and EME 211
Transfer acceptability: CSU
The study of traumatic emergencies for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pre-hospital Trauma Life Support training and certification.

EME 208L  Trauma Skills (Laboratory)  (1)
3 hours laboratory
Prerequisite: Admission into Paramedic program
Corequisite: EME 208
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of skills necessary for trauma portion of paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pre-hospital Trauma Life Support training and certification.

EME 209  Paramedic Obstetrical and Pediatric Training (Lecture)  (2.5)
2½ hours lecture
Prerequisite: Admission into Paramedic program
Corequisite: EME 209L and EME 212
Transfer acceptability: CSU
The study of Obstetrical and Pediatric emergencies for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pediatric Education for Pre-hospital Professionals training and certification.

EME 209L  Paramedic Obstetrical and Pediatric Skills (Laboratory)  (1)
3 hours laboratory
Prerequisite: Admission into Paramedic program
Corequisite: EME 209 and EME 212
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of skills necessary for the Obstetrical and Pediatric portion for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pediatric Education for Pre-hospital Professionals training and certification.

EME 210  Hospital Clinical Experience  (4)
12 hours laboratory
Prerequisite: Admission into Paramedic Program
Transfer acceptability: CSU
Supervised clinical experience in acute care areas of hospitals where knowledge of advanced life support techniques is necessary.

EME 211  Clinical Integration I  (1, 1.5)
3 - 4½ hours laboratory
Corequisite: EME 207 and EME 207L
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of assessment and BLS skills necessary to be successful in paramedic training.

EME 212  Clinical Integration II  (1.5, 2)
4½ - 6 hours laboratory
Corequisite: EME 208 and EME 208L, EME 209 and EME 209L and EME 210
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Application of assessment and BLS skills necessary to be successful in paramedic training.

EME 215  Field Internship  (9)
27 hours laboratory
Prerequisite: A minimum grade of "B" in EME 210; or concurrent enrollment in EME 210
Transfer acceptability: CSU
Assignment to a response vehicle with a field preceptor. Includes direct patient care responsibilities in providing advanced life support.

EME 220  Paramedic Refresher A  (4)
2 hours lecture - 6 hours laboratory
Note: Only open to students who have been accepted into the Paramedic Program as a challenge or who were unsuccessful in EME 208/208L, EME 209/209L, EME 210 or EME 213 and require remediation. Student who were unsuccessful must interview and be accepted into EME 220.
Transfer acceptability: CSU
Provides students who were unsuccessful in 207/207L, EME 210 and/or EME 215 or individuals who are challenging the paramedic program an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 224  Clinical Refresher  (5, 1)
1½, 3 hours laboratory
Note: Only open to students who have been accepted into the Paramedic Program as a challenge or who were unsuccessful in EME 210 or EME 215 and have received a passing grade in EME 220 or EME 221.
Transfer acceptability: CSU
Provides students who were unsuccessful in EME 215 or who are challenging the paramedic program an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 295  Directed Study in Emergency Medical Education  (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/ director
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Emergency Medical Education subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Engineering (ENGR)
Contact the Physics and Engineering Department for further information.
760-744-1150, ext. 2505
Office: NS-355B
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Engineering (AS)
Provides the background to begin upper division coursework and will prepare the student for entry level jobs that require a knowledge of engineering and engineering related topics. The highly sequential nature of the engineering curriculum necessitates completion of lower division requirements before being admitted into upper division courses.

Engineering students are urged to give priority to the completion of major field requirements over the completion of general education requirements. Engineering lower division requirements are not the same for different universities. These institutions recommend that their particular lower division requirements be completed before transfer. Students should seek early assistance in planning their specific program from the Counseling Department, the Transfer Center, or the Physics/Engineering Department.
# A.S. Degree Major

## Program Requirements

(Select a minimum of 11 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT/ENG 101</td>
<td>AutoCAD Introduction to Computer Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>DT/ENG 103 SolidWorks Introduction to 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 126</td>
<td>Intro Electric/Computer Engineering</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>ENGR 245 Properties of Materials</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 210</td>
<td>Electrical Network Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 210L</td>
<td>Electrical Network Analysis Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 235</td>
<td>Engineering Mechanics Static</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 236</td>
<td>Engineering Mechanics Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

## Electives (Select a minimum of 30 units)

Note that mathematics courses are often prerequisite to engineering and physics courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 140</td>
<td>Calculus/Analytic Geometry, First Course</td>
<td>5</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus/Analytic Geometry, Second Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Calculus/Analytic Geometry, Third Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Calculus with Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>Principles of Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 231</td>
<td>Principles of Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 232</td>
<td>Principles of Physics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 110L</td>
<td>General Chemistry Laboratory</td>
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</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 115L</td>
<td>General Chemistry Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

**Minimum Total Units**: 41

Recommended Elective: ENGR 100

ENG 100, ENG 202, and BIOL 100 are highly recommended as electives to fulfill General Education requirements.

## Course Offerings

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>AutoCAD Introduction to Computer Aided Drafting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Transfer acceptability**: CSU; UC

**Transfer acceptability**: CSU; UC – DT/ENG 101 and 102 combined: maximum credit, one course

An introduction to computer aided drafting using AutoCAD software and IBM compatible computers. Hands on experience with AutoCAD to include the following operations: preparing and editing drawings, storage and retrieval of drawings, and production of commercial quality drawings on a plotter. Introductory computer terminology and techniques in Windows.

Note: Cross listed as DT 101.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 104</td>
<td>SolidWorks Advanced 3D Design and Presentation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Transfer acceptability**: CSU

Advanced theory and hands-on operation of three-dimensional software techniques. Emphasis is placed on wireframe, surface, solid, and parametric three-dimensional modeling.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 107</td>
<td>Advanced AutoCAD</td>
<td>3</td>
</tr>
</tbody>
</table>

Prerequisite: A minimum grade of ‘C’ in DT/ENG 101

**Transfer acceptability**: CSU

Advanced theory and hands on operation of a CAD system. Emphasis is placed on large scale drawings, three dimensional software techniques, orthographic projections, and complex computer aided manufacturing applications.

Note: Cross listed as DT 102.

**Transfer acceptability**: CSU; UC – DT 101 and 102 combined: maximum credit, one course

## Engineering

### ENGR 101 AutoCAD Introduction to Computer Aided Drafting

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of ‘C’ in DT/ENG 101

Transfer acceptability: CSU; UC – DT/ENG 101 and 102 combined: maximum credit, one course

Advanced theory and hands on operation of a CAD system. Emphasis is placed on large scale drawings, three dimensional software techniques, orthographic projections, and complex computer aided manufacturing applications.

### ENGR 103 SolidWorks Introduction to 3D Design and Presentation

1½ hours lecture - 4½ hours laboratory

**Note**: Cross listed as DT 103.

**Transfer acceptability**: CSU

Advanced theory and hands on operation of three-dimensional software techniques. Emphasis is placed on wireframe, surface, solid, and parametric three-dimensional modeling.

### ENGR 104 SolidWorks Advanced 3D Design and Presentation

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of ‘C’ in DT/ENG 103

**Note**: Cross listed as DT 104

**Transfer acceptability**: CSU

Advanced theory and hands-on operation of solid and parametric three-dimensional models. Emphasis is placed on creating molds, advanced sheet metal design and developing dynamic assemblies.

### ENGR 107 Technical Drafting II with AutoCAD

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of ‘C’ in DT/ENG 101, or concurrent enrollment in DT/ENG 101

**Note**: Cross listed as DT 110

**Transfer acceptability**: CSU

Advanced drafting practices using customized AutoCAD software. Basic studies will include pictorial drafting, descriptive geometry, and revolutions. Working/shop drawings in topography, developments, cabinet/millwork, structural steel, and welding will be performed. Emphasis is placed on increased productivity by customizing AutoCAD to the student’s requirements.

### ENGR 110 Technical Drafting I with AutoCAD

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of ‘C’ in DT/ENG 101

**Note**: Cross listed as DT 111

**Transfer acceptability**: CSU

Advanced theory and hands on operation of three-dimensional software techniques. Emphasis is placed on large scale drawings, three dimensional software techniques, orthographic projections, and complex computer aided manufacturing applications.

### ENGR 113 Solid Modeling for Engineering I

1½ hours lecture - 4½ hours laboratory

**Note**: Cross listed as DT 113

**Transfer acceptability**: CSU; UC

Solid modeling, assemblies and drawings using Creo and SolidWorks.

### ENGR 117 Geometric Dimensioning and Tolerancing

1 hour lecture - 3 hours laboratory

**Note**: Cross listed as DT/WELD 117

**Transfer acceptability**: CSU

An introduction to geometric dimensioning and tolerancing ASME Y14.5-2009. Students will learn to identify, use appropriate geometric symbols and techniques of geometric dimension, and produce industrial quality drawings. Students will also learn to measure and verify geometric dimensions and tolerances of manufactured items.
ENGR 126 Introduction to Electrical and Computer Engineering  (4) 
3 hours lecture - 3 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in MATH 140  
Transfer acceptability: CSU 
Introductory concepts covering a broad range of topics in Electrical and Computer Engineering presented in an integrated approach at a hands-on level. Students work in small teams to analyze, build, and test a small programmable robot for competition at the end of the semester. Provides basic understanding and skills for students to later build their theoretical understanding in more advanced physics and engineering courses.

ENGR 151 CAD/CAM Machining  (3) 
1 ½ hours lecture - 4 ½ hours laboratory  
Note: Cross listed as as DT/WELD 151  
Transfer acceptability: CSU 
Hands-on operation of importing three-dimensional solid and parametric three-dimensional models into CAD/CAM operations.

ENGR 190 Manufacturing I Introduction to MasterCAM  (3) 
1 ½ hours lecture - 4 ½ hours laboratory  
Note: Cross listed as DT/190/IT/190/WELD 190  
This course will introduce the students to MasterCAM and 2D and basic 3D modeling. Students will receive instructions and drawings of parts requiring 2- or 3-axis machining. Students will design, model, program, set-up and run their parts on various machines, including plasma cutters, water jet cutters and milling machines.

ENGR 197 Engineering Topics  (5-5) 
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU 
Topics in Engineering. See Class Schedule for specific topic offered. Course title will designate subject covered.

ENGR 210 Electrical Network Analysis  (3) 
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in ENGR 210L and PHYS 231, or concurrent enrollment in ENGR 210L and PHYS 231  
Transfer acceptability: CSU, UC 
Circuit analysis by reduction methods, source transformations, loop and nodal analysis, OPAMP model for networks, transient analysis, alternating current circuits, impedance, power and phasor diagrams.

ENGR 210L Electrical Network Analysis Laboratory  (1) 
3 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in ENGR 210, or concurrent enrollment in ENGR 210  
Transfer acceptability: CSU, UC 
Laboratory exercises of circuit analysis by reduction methods, source transformations, loop and nodal analysis, OPAMP model for networks, transient analysis, alternating current circuits, impedance, power and phasor diagrams.

ENGR 226 Printed Circuit Board Design  (3) 
1 ½ hours lecture - 4 ½ hours laboratory  
Note: Cross listed as as DT 226  
Transfer acceptability: CSU 
Instruction in printed circuit board design generally required for entry level positions in the electronic industry. Includes artwork and complete documentation for analog and digital multi-layer, flexible and high-speed boards using current IPC standards. Drafting will be performed on the computer using high-end printed circuit board software.

ENGR 227 Advanced Printed Circuit Board Design  (3) 
1 ½ hours lecture - 4 ½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in DT/ENGR 226  
Note: Cross listed as as DT 227  
Transfer acceptability: CSU 
Advanced problems and instruction in printed circuit board design generally required for entry-level position in the electronic industry. Special emphasis will be placed on advanced applications including surface mount technology. Includes artwork and complete documentation for analog and digital multi-layer, flexible and high-speed boards using current IPC standards. Drafting will be performed on the computer using AutoCAD and PADS software.

ENGR 235 Engineering Mechanics – Statics  (3) 
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in PHYS 230 and MATH 140  
Transfer acceptability: CSU, UC 
Force systems and equilibrium conditions. Engineering problems covering structures, machines, distributed forces, and friction. Graphical and algebraic solutions, and vectorial analysis.

ENGR 236 Engineering Mechanics – Dynamics  (3) 
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in ENGR 235  
Transfer acceptability: CSU, UC 
Fundamental principles of bodies in motion; kinetics and kinematics of particles; system of particles; central force; work and energy; linear and angular momentum; moments and products of inertia; vibrations and time response; engineering applications.

ENGR 245 Properties of Materials  (4) 
3 hours lecture - 3 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in CHEM 110 and 110L  
Transfer acceptability: CSU, UC 
Physical properties of engineering materials. Atomic, molecular, and crystal lattice characteristics. Relations between these and mechanical, thermal, electrical, corrosion, and radiation properties. Metallic, ceramic, polymer, and agglomerate materials. Selection, treatment, and use of materials.

ENGR 295 Directed Study in Engineering  (1, 2, 3) 
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
Transfer acceptability: CSU 
Designed for the student who has demonstrated a proficiency in engineering subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

English (ENG) 
Contact the English Department for further information. 760-744-1150, ext. 2392  
Office: H-302B  
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).  
Associate Degrees for transfer IGTC and CSUGE requirements are listed in Section 7 (green pages).  

PROGRAM OF STUDY  

English (AA-T) 
The discipline of English focuses on the English language and literatures in English. It prepares students for transfer as an English major to a CSU or other four-year university and provides the background for students to succeed in diverse fields. For specific transfer requirements, the student should consult an academic counselor or the catalog for the school to which he or she wishes to transfer.

Pursuant to SB1440, the following completion requirements must be met:

See Catalog addendum at http://www.palomar.edu/catalog
(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtaining a minimum grade point average of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

**AA-T TRANSFER MAJOR**

Program Requirements (Select one option)

**Option I**

- *ENG 202* Critical Thinking and Composition  4
- *ENG 205* Introduction to Literature  3

**Option II**

- *ENG 203* Critical Thinking and Composition Through Literature  4

**List A (Select two courses)**

- ENG 210 Survey of British Literature I  3
- ENG 211 Survey of British Literature II  3
- *ENG 220* Survey of World Literature I  3
- *ENG 221* Survey of World Literature II  3
- ENG 225 Literature of the United States I  3
- ENG 226 Literature of the United States II  3

**List B (Select courses based on Option I or II completed above)**

For Option I, select one course:

Any course(s) from List A not already used and/or select from the list below.

- ENG 135 Introduction to Creative Writing  4
- ENG 215 Introduction to the British Novel  3
- ENG 230 Introduction to the American Novel  3
- ENG 240 Introduction to Classical Mythology  3
- ENG 245 Survey of Biblical Literature  3
- ENG 250 Literature and Ideas  3
- ENG 255 Literature through Film  3
- ENG 265 Science Fiction  3
- ENG 270 Popular Literature  3
- ENG 280 Women and Literature  3
- ENG 290 Comic Books as Literature  3

**List C (Select one course)**

Any course from List A or B not already used or select from the list below.

- ENG 136 Intermediate Creative Writing  4
- ENG 137 The Literary Magazine: History and Production  4
- ENG 150 Introduction to Linguistics  3
- HUM 100 Introduction to Humanities I  3

**TOTAL UNITS**  19 – 21

*Course is required major preparation at CSU San Marcos (CSUSM). Students planning to transfer to CSUSM are advised to select these courses to complete this degree. For more information on this major at CSUSM, please refer to the articulation agreement at ASSIST.ORG.

**English (AA)**

Focuses on the English language and literatures in English. Provides the background for students to succeed in diverse fields, such as advertising and marketing, teaching, journalism and telecommunications, law, technical writing, and business administration. Preps students for upper division course work in English. For specific transfer requirements, the student should consult an academic counselor or the catalog for the school to which he or she wishes to transfer.

**AA DEGREE MAJOR**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 205 and <em>Critical Thinking /Composition</em></td>
<td>3</td>
</tr>
<tr>
<td>ENG 202 and <em>Introduction to Literature</em></td>
<td>3</td>
</tr>
<tr>
<td>ENG 203 and Critical Thinking/Composition Through Literature</td>
<td>4</td>
</tr>
</tbody>
</table>

**Literature Surveys (Select 9 Units)** Of these nine units, students must take either a two-semester survey of British literature or a semester each of British and United States literature.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 210 Survey of British Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 211 Survey of British Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 220 Survey of World Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 221 Survey of World Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 225 Literature of the United States I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 226 Literature of the United States II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses (Select 2 courses)** Any of the above courses not previously taken or pick from the following:

- ENG 135 Introduction to Creative Writing  4
- ENG 136 Intermediate Creative Writing  4
- ENG 137 The Literary Magazine: History/Production  4
- ENG 215 Introduction to the British Novel  3
- ENG 230 Introduction to the American Novel  3
- ENG 240 Introduction to Classical Mythology  3
- ENG 245 Survey of Biblical Literature  3
- ENG 250 Introduction to Shakespeare  3
- ENG 255 Literature and Ideas  3
- ENG 260 Literature Through Film  3
- ENG 265 Science Fiction  3
- ENG 270 Popular Literature  3

**TOTAL UNITS**  22 - 24

**COURSE OFFERINGS**

Any student wishing to earn an A.A. degree must complete ENG 100 with a grade of ‘C’ or better. The student must participate in the English placement process before enrolling in any English or English as a Second Language composition class. Multiple Measures will indicate whether the student may enroll in ENG 50A, ENG 50, or ENG 100. Students whose first language is not English may find, however, that ESL instruction meets their needs better than immediate enrollment in ENG 50A or 50. Such students may take one or more of these ESL classes instead: ESL 101,102,103, accelerated courses ESL 105 & 106. Upon completion of ESL courses, these students may participate again in the English placement process to qualify for ENG 50A, 50, or 100. Non-resident international students may be required to take one or more classes of English as a Second Language.

Students may take three or more semesters to finish the competence requirements in English. Please contact the Assessment Center for information at ext. 2476.

Courses numbered under 50 are non-degree courses.

Courses numbered under 100 are not intended for transfer credit.
ENG 10  English Essentials  (4)
4 hours lecture
Note: A grade of ‘C’ or better is required for eligibility for ENG 50
Non-degree Applicable
Offers basic instruction in grammar, usage, mechanics, sentence structure, and paragraph and essay development.

ENG 50  Introductory Composition  (4)
4 hours lecture
Recommended preparation: Eligibility for or concurrent enrollment in READ 51
Prerequisite: A minimum grade of ‘C’ in ENG 10 or eligibility determined through the English placement process
Note: A grade of ‘C’ or better is required for eligibility for ENG 100
A writing course for the student who wants to develop fundamental essay writing skills, acquire an A.A. degree, or enter a transfer program, but who needs further preparation in composition skills.

ENG 50A  Preparation for College Composition  (6)
6 hours lecture
Accelerated preparation for English Composition (ENG 100), this course offers intensive instruction in the academic reading, reasoning, and writing expected for transfer and associate-degree courses. Students will read college-level texts, review rules of grammar and essay form, and practice essay-writing. (Non-degree credit course.)

ENG 97  English Topics  (1-4)
Units awarded in topics courses are dependent upon the number of lecture hours required of the student. Refer to Class Schedule.
Topics in English. See class schedule for specific topic covered. Course title will designate subject covered.

ENG 100  English Composition  (4)
4 hours lecture
Prerequisite: A minimum grade of ‘C’ in ENG 50 or eligibility determined through the English placement process
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU; UC
Practice in expository and argumentative writing based on analytical reading and critical thinking. Topics include methods of invention, organization and development, principles of basic research, and the elements of style.

ENG 135  Introduction to Creative Writing  (4)
4 hours lecture
Prerequisite: ENG 50 or eligibility for ENG 100 as determined through the English placement process
Transfer acceptability: CSU; UC
C-ID ENGL 200
Provides practice, instruction, and analytical research in writing fiction and poetry. Students submit both creative and analytical writing which will be presented for workshop discussion and critique. Lectures present a variety of prose and verse forms.

ENG 136  Intermediate Creative Writing  (4)
4 hours lecture
Prerequisite: ENG 50 or eligibility for ENG 100 as determined through the English placement process
Transfer acceptability: CSU; UC
Provides practice, instruction, and analytical research in writing fiction and poetry. Students submit both creative and analytical writing which will be presented for workshop discussion and critique. Lectures present a variety of prose and verse forms.

ENG 137  The Literary Magazine: History and Production  (4)
2 hours lecture - 6 hours laboratory
Prerequisite: ENG 50 or eligibility for ENG 100 as determined through the English placement process
Transfer acceptability: CSU
Historical examination of the genre of the literary magazine from the 18th century to the present, with an emphasis on the late 20th century. Also, after selecting and editing material for Palomar College’s literary journal, Bravura, students will structure, format, produce, and distribute the magazine.

ENG 150  Introduction to Linguistics  (3)
3 hours lecture
Prerequisite: ENG 50 or Eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
An introduction to the principles and practices of modern language study. Examines the origins and development of language, its social uses and implications, and its structure.

ENG 197  English Topics  (1-4)
Units awarded in topics courses are dependent upon the number of lecture hours required of the student. Refer to Class Schedule.
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Topics in English. See Class Schedule for specific topic offered. Course title will designate subject covered.

ENG 202  Critical Thinking and Composition Through Literature  (4)
4 hours lecture
Prerequisite: A minimum grade of ‘C’ in ENG 100
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU; UC
C-ID ENGL 105
Provides instruction and practice in methods of critical thinking and formal composition, emphasizing the following: awareness of language and its implications through rhetorical and semiotic analysis based on systematic consideration of language in context; awareness of principles of classical argument in light of the traditions of rational thought. Students will be required to engage in both traditional and current methods of research through the use of information technology.

ENG 203  Critical Thinking and Composition  (4)
4 hours lecture
Prerequisite: A minimum grade of ‘C’ in ENG 100
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU; UC
C-ID ENGL 110
Provides practice in writing essays about literature with emphasis on critical thinking, reading, and writing skills; principles of inductive and deductive reasoning; the relationship of language to logic: analysis, criticism, and advocacy of ideas; methods of research; advanced elements of style and organization.

ENG 205  Introduction to Literature  (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in ENG 100
Transfer acceptability: CSU; UC
C-ID ENGL 120
An introduction to fiction, poetry, drama, and other genres in literary form. Students will read and discuss assigned selections from various literary genres and examine themes, language, forms, techniques, and other strategies that influence the production and reception of literature.

ENG 210  Survey of British Literature I  (3)
3 hours lecture
Prerequisite: ENG 50 or eligibility for ENG 100 as determined through the English placement process
Transfer acceptability: CSU; UC
C-ID ENGL 160
A study of the significant texts in British literature from the Middle Ages to the Eighteenth Century; considers a variety of authors, literary genres and trends, as well the historical and cultural contexts of the literary texts.
ENG 211  Survey of British Literature II  (3)
3 hours lecture
Prerequisite: ENG 50 or eligibility for ENG 100 as determined through the English placement process
Transfer acceptability: CSU; UC
A study of significant texts in British literature from the Romantic period to the present. Considers a variety of authors, literary genres and trends, as well as the historical and cultural contexts of the literary texts.

ENG 215  Introduction to the British Novel  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC

ENG 220  Survey of World Literature I  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
A survey of the major literature of Africa, the Americas, Asia and Europe from ancient times to about 1600. A comparative study of literary themes and expression will be pursued.

ENG 221  Survey of World Literature II  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
A survey of the major literatures of Europe, Asia, the Americas, Africa, and Australia from about 1600 to the present. A comparative study of literary themes and influences will be pursued.

ENG 225  Literature of the United States I  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
Significant texts written in the territories that would become the United States, from the pre-colonial period to the Civil War; considers a variety of literary genres and trends, with a focus on such issues as the interaction of texts and history, the expansion and politics of the literary canon, and the influence of the cultural contexts in which the literature of the United States is written and interpreted.

ENG 226  Literature of the United States II  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
Significant texts written in the United States from the Civil War to the present; considers a variety of literary genres and trends, with a focus on such issues as the interaction of texts and history, the expansion and politics of the literary canon, and the influence of the cultural contexts in which the literature of the United States is written and interpreted.

ENG 230  Introduction to the American Novel  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
A study of the development of the American novel through reading such writers as Nathaniel Hawthorne, Louisa May Alcott, Herman Melville, Mark Twain, Henry James, Elizabeth Stewart Phelps, Kate Chopin, William Faulkner, Ernest Hemingway, Nella Larsen, Bernard Malamud, Zora Neale Hurston, William Cather, Ralph Ellison, Thomas Pynchon, Toni Morrison, Maxine Hong Kingston, Louise Erdrich, and James Baldwin.

ENG 245  Survey of Biblical Literature  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
An introduction to the study of the Bible in English as an anthology of literary types and genres: stories, poetry, proverbs, gospels, parables, satire, and visionary literature.

ENG 250  Introduction to Shakespeare  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
Introduction to the life, times, background, poems, and plays of William Shakespeare.

ENG 255  Literature and Ideas  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process
Transfer acceptability: CSU; UC
An introduction to selected major philosophical ideas, questions, and attitudes in significant literature of the world, from the ancient world to the present. The course will trace treatment of a thematic idea through literature of particular times and cultures. Recommended for English and Philosophy majors, and for those interested in broadening their background in the humanities.

ENG 260  Literature Through Film  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100
Transfer acceptability: CSU; UC
Analysis of the expectations and conventions used in literature -- novels, short stories, dramas -- and how those expectations and conventions are affected when they are translated into film. Critical analysis of the various works and comparison/contrast of the different interpretations of these ideas will be stressed.

ENG 265  Science Fiction  (3)
3 hour lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100
Note: Graded only
Transfer acceptability: CSU; UC
An introduction to science fiction - its major authors and stories, themes, trends, and cultural impact.

ENG 270  Popular Literature  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100
Transfer acceptability: CSU; UC
An introduction to one genre of popular literature such as science fiction, fantasy, detective fiction, war fiction, humor, or western literature using short stories and novels, and how these works are affected by the expectations, and conventions of the genre in which the author is writing.
ENG 280  Women and Literature  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process  
Transfer acceptability: CSU; UC  
Examines from a multicultural perspective women's relationship to literature. Examines what it means to be a "woman" writer, exploring historical and cultural conditions that have shaped women's relationship to literature. Explores gender stereotypes in literature by and about women and analyzes the ways in which women writers engage with, resist, and/or subvert dominant ideas about gender in literature.

ENG 290  Comic Books as Literature  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in ENG 50 or eligibility for ENG 100, as determined through the English placement process  
Transfer acceptability: CSU; UC  
An analysis of the comic book in terms of its unique poetics (the complicated interplay of word and image); the themes that are suggested in various works; the history and development of the form and its subgenres; and the expectations of comic book readers. Examines the influence of history, culture, and economics on comic book artists and writers. Explores definitions of "literature," how these definitions apply to comic books, and the tensions that arise from such applications.

English as a Second Language (ESL)  
Contact the English as a Second Language Department for further information.  
760-744-1150, ext. 2272  
Office: H-116  
Any student wishing to earn an A.A. degree must complete ENG 100 with a grade of 'C' or better.  
Students whose first language is not English are advised to participate in an English placement process given by the English as a Second Language Department before enrolling in any English or English as a Second Language class. The assessment process will determine which level is appropriate for the student.

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.  
Courses numbered under 100 are not intended for transfer credit.  
The following courses are for students whose first language is not English.

ESL 9  English Pronunciation I  
3 hours lecture  
Non-degree Applicable  
Development of students' ability to identify and replicate English intonation, stress patterns, and certain common word combinations as they are pronounced in informal speech.

ESL 10  English Pronunciation II  
3 hours lecture  
Non-degree Applicable  
Identifies standard spoken American English intonation, stress and rhythm sounds. Provides practice to retrain the speech organs to produce those sounds. Emphasis on self correction of speech problems.

ESL 12  ESL Grammar Skills I  
3 hours lecture  
Non-degree Applicable  
Instruction in editing of written material by applying conventions of standard written English.

ESL 13  ESL Grammar Skills II  
3 hours lecture  
Non-degree Applicable  
Instruction in editing of written material by applying conventions of standard written English.

ESL 14  ESL Grammar Skills III  
3 hours lecture  
Non-degree Applicable  
Instruction in editing of written material by applying conventions of standard written English.

ESL 20  Academic Speaking and Listening  
3 hours lecture  
Recommended preparation: N ESL 903 or eligibility determined through the English as a Second Language placement process  
Non-degree Applicable  
Develops speaking and listening skills necessary for non-native speakers of English to be successful in the college environment. This class emphasizes linguistic and interpersonal skills in order for participation in discussions and performance of tasks in personal, academic, and formal or informal situations. Vocabulary, conversation strategies, presentation techniques, and strategies for notetaking and listening for main ideas and details are introduced within interesting and meaningful contexts.

ESL 40  Introduction to Academic Reading and Writing  
2 hours lecture  
Non-degree Applicable  
A multilevel reading and writing course designed to help students improve their reading and writing skills. This course will provide a review of grammar, paragraph organization and development, and the conventions of academic writing. It will also address reading strategies such as using textual cues to aid comprehension, finding a balance between speed and accuracy, and vocabulary building.

ESL 45  Reading and Writing Essentials I  
5 hours lecture  
Non-degree Applicable  
A beginning course in reading and writing academic English for students whose first language is not English. Offers instruction in reading skills, basic grammar usage, paragraph organization and development, and appropriate basic vocabulary for academic reading and writing.

ESL 55  Reading and Writing Essentials II  
5 hours lecture  
Prerequisite: A minimum grade of 'C' in ESL 35 or ESL 45, or eligibility determined through the English as a Second Language placement process  
An intermediate course in reading and writing academic English for students whose language is not English. Introduces analytical skills and critical thinking through reading, word level, and sentence level grammar as it applies to academic writing, paragraph organization and development, and appropriate vocabulary for academic writing.

ESL 97  English as a Second Language Topics  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Topics in English as a Second Language. See Class Schedule for specific topic covered. Course title will designate subject covered.

ESL 98.1  Career Track ESL I  
1 hour lecture - 3, 4½, 6, 7½, or 9 hours laboratory  
Prerequisite: A minimum grade of 'C' in ESL 98.1  
First level English as a Second Language instruction in preparation for entrance into a career, certificate, or degree program. Self-paced modules provide an introduction to complementary language and academic skills necessary to succeed in a career/technical program. Includes reading, writing, speaking, listening, and basic computer literacy skills.

ESL 98.2  Career Track ESL II  
1 hour lecture - 3, 4½, 6, 7½, or 9 hours laboratory  
Prerequisite: A minimum grade of 'C' in ESL 98.1  
Intermediate English as a Second Language instruction in preparation for a vocational program. Continued self-paced intermediate instruction in complementary language and academic skills necessary to succeed in a vocational program. Includes reading, writing, speaking, listening, and intermediate computer literacy skills.

See Catalog addendum at http://www.palomar.edu/catalog
ESL 101 Written Communication I (5)
5 hours lecture
Prerequisite: A minimum grade of ‘C’ in ESL 55, or eligibility determined through the English as a Second Language placement process.
Transfer acceptability: CSU; UC – ESL 102 and 103 combined: maximum credit, 8 units

ESL 102 Written Communication II (5)
5 hours lecture
Prerequisite: ESL 101 or eligibility determined through the English as a Second Language placement process.
Transfer acceptability: CSU; UC – ESL 102 and 103 combined: maximum credit, 8 units

ESL 103 Written Communication III (5)
5 hours lecture
Prerequisite: ESL 102 or eligibility determined through the English as a Second Language placement process.
Transfer acceptability: CSU; UC – ESL 102 and 103 combined: maximum credit, 8 units

ESL 105 Accelerated Written Communication I (6)
6 hours lecture
Prerequisite: ESL 45, or Eligibility determined through the English as a Second Language placement process.
Transfer acceptability: CSU; UC

ESL 106 Accelerated Written Communication II (6)
6 hours lecture
Prerequisite: ESL 105, or ESL 101 or Eligibility determined through the English as a Second Language placement process.
Transfer acceptability: CSU; UC

PROGRAMS OF STUDY

Entertainment Technology (CA)

This program prepares students for employment in the fields of entertainment technologies at entry level. The areas of potential employment include theme parks, casinos, cruise ships, concerts, gallery design, event installations, live event technical support, and theatre venues providing non-theatre related events. Basic rigging and production safety will be a component of this program.

CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>CSNT 110</td>
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<td>DBA 100</td>
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<td>ENTT/DBA 120</td>
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<td>ENTT/TA 105</td>
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<td>ENTT/TA 107</td>
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<td>TA/ENTT</td>
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<td>MUS 112</td>
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<td>ENTT 124</td>
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<tr>
<td>TA 192A</td>
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</tbody>
</table>

Elective Courses (select 10 units):

- TA/FASH 109
- DBA 298B
- DBA 298A
- MUS 114
- TA/ENTT 170
- ENTT 106A
- TA/ENTT 108
- TA/ENTT 171
- TA 192B
- TA 192C
- TA 192D
- DBA/ENTT 130
- DBA 230
- DBA 298A
- DBA 298B
- DBA 100
- ENTT 29C
- FASH 126
- FASH 135
- FASH 139
- WELD 100

TOTAL UNITS: 34

Entertainment Technology Certificate of Achievement also listed in Digital Broadcast Arts and in Theatre Arts.

COURSE OFFERINGS

Individual courses are not repeatable. State Regulations (Title 5, Sections 55040-55041) also limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Entertainment Technology have limitations on the number of times a student may enroll. Specific information about enrollment limitations for Entertainment Technology classes is available at http://www.palomar.edu/schedule/restrictions.htm
ENTT 105  Introduction to Technical Theatre  (3)
2 hours lecture - 4 hours laboratory
Note: Cross listed as TA 105
Transfer acceptability: CSU; UC
A practical introduction to the theories and applications of construction techniques, language, principles, safety, and tools used in the creation of theatrical scenery and properties. The language, tools, and principles of other technical theatre crafts, such as lighting, costume, make-up, sound design, and stage management will also be presented.

ENTT 106A  Basic Costume I: Technology  (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as FASH 106A and TA 106A
Transfer acceptability: CSU; UC
C-ID THTR 174
A foundational course providing a basic introduction to practices, theories, techniques and procedures of costume technology for theatre, film and television. Focus will be on the structure of a working costume shop, basic hand and machine sewing techniques, textile identification, basic garment fitting, simple pattern modification, and production wardrobe crew procedures. Practical training in college productions is incorporated during the course of study.

ENTT 106B  Basic Costume II: Design  (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as FASH 106B and TA 106B
Transfer acceptability: CSU; UC
A foundational course providing a basic introduction to practices, theories, techniques and procedures of costume design for theatre, film and television. Through a series of costume projects, students develop design theory, drawing techniques and script analysis abilities. Practical training in college productions is incorporated during the course of study.

ENTT 107  Lighting for Stage and Television  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in ENTT 105/TA 105
Note: Cross listed as TA 107
Transfer acceptability: CSU; UC
C-ID THTR 173
Techniques, theories, and procedures necessary to develop lighting and lighting effects integrated into film, television, and theatre productions. Practical experience in college productions.

ENTT 108  Stagecraft and Scene Design for Theatre and Television  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in ENTT/TA 105
Note: Cross listed as TA 108
Transfer acceptability: CSU; UC
C-ID THTR 172
Technical practices and organization of production for theatre, film, and television. Practice in drafting, designing, and construction of scenery for college productions.

ENTT 112  Basic Sound Reinforcement  (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as TA 112 and MUS 112
Transfer acceptability: CSU
An introduction to basic sound equipment and reinforcement principles. To understand basic set up, operation, and troubleshooting of live Public Address systems in a concert or theatrical setting.

ENTT 114  Advanced Sound Reinforcement  (1.5 - 2)
4½ - 6 hours laboratory
Prerequisite: A minimum grade of 'C' in TA/ENTT/MUS 112
Note: Cross listed as MUS/TA 114
Transfer acceptability: CSU
Advanced principles of electronic sound, acoustics, equalization and effects processing, recording of live sound in a concert or theatrical setting, equipment management and stage design techniques.

ENTT 120  Digital Television Production  (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in TA/ENTT/MUS 112
Note: Cross listed as DBA 120; may not be taken for Pass/No Pass grading
Transfer acceptability: CSU
The terminology, practices, and aesthetic considerations of visual and sound productions. Principles of producing, staging, shot composition, directing, blocking, graphics, studio techniques, and lighting for television.

ENTT 124  Beginning Stage Management  (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in TA/ENTT/MUS 112
Note: Cross listed as DNCE/TA 124
Transfer acceptability: CSU; UC
Introduces students to the practices and techniques of Stage Management. Students will assist a stage manager on a project during the course of the semester. Regular availability on evenings and weekends is required.

ENTT 130  Radio Production  (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in TA 130; may not be taken for Pass/No Pass grading
Transfer acceptability: CSU
Techniques and theories of audio production in the preparation of radio programs. Use of audio mixing and recording equipment, editing and dubbing, microphone techniques and program construction. A program produced by the student will be broadcast on radio station KKSM.

ENTT 170  Computer Aided Drafting for Theatre  (2)
6 hours laboratory
Prerequisite: A minimum grade of 'C' in TA/ENTT/MUS 112
Note: Cross listed as TA 170
Transfer acceptability: CSU
An introduction to Computer Aided Drafting (CAD) for theatre. Hands on experience with CAD software to be supplemented with basic mechanical drafting terminology and techniques. An introduction to user specific third party software as related to drafting and designing of scenery and lighting for college productions.

ENTT 298C  Advanced Broadcast Internships  (3)
9 hours laboratory
Prerequisite: A minimum grade of 'C' in DBA 298B
Note: Cross listed as DBA 298C; may not be taken for Pass/No Pass grading
Transfer acceptability: CSU
Work on advanced television production including individual research, work on advanced college produced programs, or internships at local Network affiliate broadcast stations, radio stations, cable companies, and other professional communications facilities.
Family and Consumer Sciences (FCS)

Contact the Design and Consumer Education Department for further information.
760-744-1150, ext. 2349
Office: P-8A

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

For transfer information, consult a Palomar College Counselor.

PROGRAM OF STUDY

Family and Consumer Sciences – General (AS, CA)

For students desiring to improve their skills as home managers or to enter careers in social services or related fields requiring knowledge of family management skills.

Students should be aware that not all Family and Consumer Sciences, Fashion, and Interior Design courses are offered every semester. See Class Schedule or Department Chairperson for additional information.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements Units
FCS 101 Life Management 3
FCS 105 Family Dynamics 3
FCS/BUS 136 Money Management and Planning for the Future 3
NUTR/HE 165 Fundamentals of Nutrition 3
FASH 110 Textiles 3
FASH 135 Introductory Sewing for Apparel 3
ID 100 Interior Design 3
CHDV 100 Child Growth and Development or
PSYC 110 Developmental Psychology – Child Through Adult 3

TOTAL UNITS 24

Recommended Electives: It is recommended that candidates for the certificate and transfer students take one or more of the following courses: FCS 197, FASH 100, 105, 136; ID 105, 115; ART 120; CHEM 100; CHDV 145; CE 100; PSYC 100; SOC 100; SPCH 100

Students planning to transfer to San Diego State University should seek counseling from the director of the Family and Consumer Sciences program.

COURSE OFFERINGS

FCS 101 Life Management (3)
3 hours lecture
Transfer acceptability: CSU
Principles of managing human systems through the techniques of goal setting, decision making, communication, and time and energy structuring. Emphasizes problem solving skills transferable to management of education, residence, or work environments.

FCS 105 Family Dynamics (3)
3 hours lecture
Transfer acceptability: CSU
Explores the elements which lead to successful adjustment in family living, Dynamics of love, communication, and sexuality are examined as part of the developmental process of family life.

FCS 110 Microbiology and Foods (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as BIOL 108
Transfer acceptability: CSU
Introduction to the principles of microbiology with an emphasis on foodborne pathogens. Students will explore biological factors and controls relating to reproduction of microorganisms and the effects on public health. This course does not meet microbiology requirement for pre-health students.

FCS 136 Money Management and Planning for the Future (3)
3 hours lecture
Note: Cross listed as BUS 136
Transfer acceptability: CSU
An integrated approach to personal finance that focuses on practical financial decision-making, as well as the physiological, psychological and sociological contexts in which those decisions are made. Topics include money management, taxes, financial services, consumer credit, consumer purchasing strategies, housing, property and automobile insurance, health and disability insurance, life insurance, investment analysis and retirement and estate planning.

FCS 197 Family and Consumer Sciences Workshop (5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Family and Consumer Sciences. See class schedule for specific topic offered. Course title will designate subject covered.

Fashion (FASH)

Contact the Design and Consumer Education Department for further information.
760-744-1150, ext. 2349
Office: P-8A

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

For transfer information, consult a Palomar College Counselor.

PROGRAMS OF STUDY

Fashion: Buying and Management (AS, CA)

A program designed to prepare future personnel for employment in a retail management position with an emphasis in fashion retailing.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements Units
FASH 100 Fashion Industry 3
FASH 105 Fashion Analysis and Clothing Selection 3
FASH 110 Textiles 3
FASH 115 Visual Merchandising I 3
FASH 119 Fashion Buying/Management I 3
FASH 120 Fashion Buying/Management II 3
FASH 126 Fashion Show Presentation 3
FASH 130 History of Fashion/Costume 3
FASH 175 Analysis, Evaluation, and Comparison of Ready-to-Wear 3
FASH 195 Field Studies in Fashion 2
BUS 167 Microsoft Office Integration 3
BUS 205 Business Communication 3

TOTAL UNITS 35
**Fashion Design (AS, CA)**

Courses required for employment in the fashion industry; specifically in pattern making, sample work, fashion design, and illustration. Students should be aware that not all Fashion courses are offered every semester. See Class Schedule for additional information.

### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

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<tr>
<th>Program Requirements</th>
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<tr>
<td>FASH 90 Design Collection</td>
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<td>FASH 100 Fashion Industry</td>
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<td>FASH 105 Fashion Analysis and Clothing Selection</td>
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<td>FASH 110 Textiles</td>
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<td>FASH 130 History of Fashion/Costume</td>
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<td>FASH 136 Advanced Sewing for Apparel</td>
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<td>FASH 149 Fine Dressmaking</td>
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<td>FASH 139 Pattern Making/Fashion Design</td>
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<td>FASH 141 Advanced Pattern Making/Draping</td>
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<td>FASH 145 Fashion Illustration and Presentation</td>
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<td>FASH 148 Digital Design for Fashion</td>
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<td>FASH 195 Field Studies in Fashion</td>
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<td>CE 150 Cooperative Education Internship</td>
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</tbody>
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**TOTAL UNITS** 37 – 38

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**Fashion Merchandising (AS, CA)**

The Fashion Merchandising A.S. degree program provides students with an option for a career or the requisite foundation for transfer to a four-year college or university. Careers might include assistant buyer, assistant department manager, small store owner, visual merchandiser, advertising consultant, fashion coordinator, fashion stylist, promotion coordinator, sales associate, or manufacturer’s sales representative.

Students should be aware that not all Fashion courses are offered every semester. See Class Schedule or Department for additional information.

### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
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<td>FASH 105 Fashion Analysis and Clothing Selection</td>
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<td>FASH 110 Textiles</td>
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<td>FASH 126 Fashion Show Presentation</td>
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<td>FASH 130 History of Fashion/Costume</td>
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<td>FASH 155 World of Fashion</td>
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<tr>
<td>ID/ARCH 150 Beginning Computer Aided Drafting</td>
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</table>

**TOTAL UNITS** 31 - 33

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### COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

**FASH 90 Design Collection**

1 ½ hours lecture - 4 ½ hours laboratory

**Recommended preparation:** At least one of the following courses: FASH 135, 136, 139, 145

Lab course for fashion show line designers in any clothing category of women’s, men’s, teen’s, and children’s wear.

**FASH 100 Fashion Industry**

3 hours lecture

**Transfer acceptability:** CSU

A study of the background and technology of the clothing industry. Includes contemporary problems of production and distribution; emphasis is on career options in the fashion industry.

**FASH 105 Fashion Analysis and Clothing Selection**

3 hours lecture

**Transfer acceptability:** CSU

Examines fashion for professional and personal need as it relates to culture, wardrobe planning, and coordination.

**FASH 106A Basic Costume I: Technology**

2 hours lecture - 3 hours laboratory

**Note:** Cross listed as TA 106A and ENTT 106A

**Transfer acceptability:** CSU; UC

A foundational course providing a basic introduction to practices, theories, techniques and procedures of costume technology for theatre, film and television. Focus will be on the structure of a working costume shop, basic hand and machine sewing techniques, textile identification, basic garment fitting, simple pattern modification, and production wardrobe crew procedures. Practical training in college productions is incorporated during the course of study.
FASH 106B  Basic Costume II: Design (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as ENTT 106B and TA 106B
Transfer acceptability: CSU; UC
A foundational course providing a basic introduction to practices, theories, techniques and procedures of costume design for theatre, film and television. Through a series of costume projects, students develop design theory, drawing techniques and script analysis abilities. Practical training in college productions is incorporated during the course of study.

FASH 109  Elementary Stage Make-Up (3)
2 hours lecture - 4 hours laboratory
Prerequisite: A minimum grade of 'C' in ENTT/TA 105
Note: Cross listed as TA 109
Transfer acceptability: CSU; UC
Basic theories, techniques, and procedures of make-up production for stage, film, and television. Practical training in college productions.

FASH 110  Textiles (3)
2½ hours lecture - 1½ hours laboratory
Transfer acceptability: CSU
Fibers, yarn, fabric construction, and finishes as related to selection, use, and care of textiles.

FASH 115  Visual Merchandising I (3)
3 hours lecture
Transfer acceptability: CSU
Designed to acquaint the student with basic techniques of effective retail store presentations including window and interior displays. Course activities include constructing and installing visual displays using the principles of design and designing store environments, utilizing fixtures, lighting, and other display materials.

FASH 116  Visual Merchandising II (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in FASH 115
Transfer acceptability: CSU
Advanced training in visual presentation. Students benefit by practical application and collaboration with industry professionals. Course activities include a leadership role in construction and installing of interior and exterior window displays, store layout, special event coordination, and store planning.

FASH 119  Fashion Buying/Management I (3)
3 hours lecture
Transfer acceptability: CSU
A study of management opportunities within the field of fashion retailing, at both the corporate and store level, with an emphasis on the role of store department management. The role and responsibilities of each management position will be fully explored, including fiscal responsibilities of each and the math skills necessary to accomplish goals. Topics covered include basic management skills, inventory control, labor laws governing the fashion retail industry, recruitment and interviewing, employee relations, including coaching and counseling, math skills pertinent to each position, and merchandise management and control.

FASH 120  Fashion Buying/Management II (3)
3 hours lecture
Transfer acceptability: CSU
Principles of fashion buying utilizing practical applications and case studies. Topics covered include merchandise planning and selection, resource relations, legal trade regulations, pricing, and merchandise management and control.

FASH 125  Retailing/Promotion (3)
3 hours lecture
Note: Cross listed as BUS 145
Transfer acceptability: CSU
Principles and techniques of retailing, promotion, and advertising pertinent to retail policies and procedures. Includes psychological aspect of retailing. Working foundation for those looking forward to employment in this area.

FASH 126  Fashion Show Presentation (3)
3 hour lecture
Transfer acceptability: CSU
Applied study and practical application of fashion show and special event production and promotional skills. Strategies and techniques studied include organizing, advertising, staging, timing, and coordinating models and their clothing and accessories. Produce the Fashion Merchandising/Fashion Design program’s annual fashion show.

FASH 130  History of Fashion/Costume (3)
3 hours lecture
Transfer acceptability: CSU
Styles of dress from the Paleolithic period to the present as depicted in art forms and other media. Focuses on Western European costume.

FASH 131  Elementary Stage Costume and Make Up (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as TA 131
Transfer acceptability: CSU
Basic theories, techniques, and procedures of costume production and make-up application for stage, film, and television. Practical training in college productions.

FASH 132  Costume and Culture (3)
3 hours lecture
Transfer acceptability: CSU; UC

FASH 133  Elementary Stage Make-Up (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Produce basic garments in a sample-room setting using introductory sewing techniques.

FASH 134  Advanced Sewing for Apparel (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in FASH 133
Transfer acceptability: CSU
Advanced sewing for apparel emphasizing machine technique and workshop procedures. Preparation will be given for employment in sample making for apparel manufacturing.

FASH 135  Pattern Making/Fashion Design (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Pattern making through the flat pattern design method. Attention is given to design analysis and interpretation of design; application of design method in the development, presentation, and construction of original garments.

FASH 136  Advanced Pattern Making/Draping (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Advanced design skills for the fashion industry. Examination of one method of pattern development: draping. Creation of patterns to drape and fit on a dressmaker’s form.

FASH 137  Fashion Illustration and Presentation (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Fundamentals in drawing of fashion figures and in illustration of fashion garments. Development of individual skills and style in graphic presentation.

FASH 138  Digital Design for Fashion (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Design and illustrate fashion sketches, storyboards, and patterns using Adobe Illustrator and Adobe Photoshop. Development of individual skills and style in graphic presentations.
FASH 149  Fine Dressmaking  (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in FASH 136
Transfer acceptability: CSU
A study of techniques used to develop fine dressmaking skills including construction used in high-end ready to wear and couture fashions.

FASH 155  World of Fashion  (2,3)
1, 2, or 3 hours lecture - ½, 2, 3, or 4½ laboratory
Note: Fee charged
Transfer acceptability: CSU
Extended field studies in textiles, design, manufacturing, forecasting, and retail practices as they apply to the national and international fashion industry. Emphasis upon field observation and examination of the fashion trends as they interrelate with the social, political, psychological, economic, and historical influences to create the fashion ambience. Geographical locations may vary.

FASH 175  Analysis, Evaluation, and Comparison of Ready-to-Wear  (3)
3 hours lecture
Transfer acceptability: CSU
Analysis of the quality of materials, design, and construction in ready-to-wear garments and accessories; comparison of processes involved in manufacturing; concepts of sizing; principles of fit; and aids in buying and selling.

FASH 195  Field Studies in Fashion  (2)
1 hour lecture - 3 hours laboratory
Transfer acceptability: CSU
Fashion industry on site: process of designing, manufacturing, marketing, and merchandising of fashion apparel and related accessories.

FASH 197A  Fashion Merchandising Workshop  (5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Covers areas of the fashion merchandising industry which are rapidly changing or require current short term specific training.

FASH 197B  Fashion Manufacturing Workshop  (5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Covers areas of the fashion manufacturing industry which are rapidly changing or require current short term specific training.

FASH 197C  Fashion Design Workshop  (5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Covers areas of the fashion design industry which are rapidly changing or require current short term specific training.

FASH 295  Directed Study in Fashion  (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Fashion subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Fire Technology (FIRE)
Contact Public Safety Programs for further information. 760-744-1150, ext. 1704
Office: PSTC, 182 Santar Place, San Marcos
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

Fire Academy (AS, CA)
Training to meet the requirements mandated by the California Office of State Fire Marshal for Certified Fire Fighter I. Covers fire ground procedures, tactics, strategy, safety methods, fire dynamics, equipment usage and deployment, and subject material pertaining to the role of fire fighters within the fire service.
Prepares students for a career in the fire suppression/protection field. The student also receives additional certifications from the California State Fire Marshall's Office.

CERTIFICATE OF ACHIEVEMENT
Program Requirements
- EME 100/HE 104 Emergency Medical Responder  3
- EME 106 Emergency Medical Technician (Lecture)  6
- EME 106L Emergency Medical Technician Skills (Laboratory)  1.5
- FIRE 151 Fire Fighter I Academy  20

TOTAL UNITS 30.5

Fire Technology - Emergency Management (AS, CA)
Prepares student for career in Emergency Management.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT
Program Requirements

Electives (Select 12 units)
- FIRE 51 Fire Academy Preparation  2
- FIRE 71 Trench Rescue  0.5
- FIRE 72 Swiftwater Rescue  0.5
- FIRE 98 Fire Service Skills  0.5 - 5
- FIRE 101 Firefighter Safety  3
- FIRE 118 Fire Prevention Technology  3
- FIRE 125 Fire Apparatus and Equipment  3
- FIRE 130 Fire Protection Equipment and Systems  3
- FIRE 145 Fire Fighting Tactics and Strategy  3
- FIRE 151 Fire Fighter I Academy  20
- FIRE 152 Driver Operator Academy  4.5
- FIRE 160 Wildland Fire Control I  3
- FIRE 165 Fundamentals of Fire Protection Chemistry  3
- FIRE 168 Volunteer Fire Fighter Academy  4
- FIRE 175 Fire Command IA  2.5
- FIRE 180 Fire Prevention IA  2.5
- FIRE 176 Fire Command IB  2.5
- FIRE 181 Fire Prevention IB  2.5
- FIRE 185 Fire Management I  2.5
- FIRE 190 Fire Investigation IA  2.5
- FIRE 193 Fire Instructor IA  2.5
- FIRE 194 Fire Instructor IB  2.5
- FIRE 197A Fire Technology General Topics  0.5 - 5
- FIRE 197B Fire Technology Command Topics  0.5 - 5
- FIRE 197C Fire Technology Field Topics  0.5 - 5

TOTAL UNITS 33
Fire Technology - General (AS, CA)

Prepares students for a career in fire suppression, fire prevention and/or fire protection.

A. S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<td>Fire Protection Organization</td>
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<td>FIRE 120</td>
<td>Building Construction for Fire Protection</td>
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<td>FIRE 130</td>
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<td>FIRE 165</td>
<td>Fundamentals of Fire Protection Chemistry</td>
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<td>FIRE 142</td>
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Elective Courses (Select 15 units)

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<th>Title</th>
<th>Units</th>
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<td>FIRE 71</td>
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<td>FIRE 72</td>
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<td>FIRE 98</td>
<td>Fire Service Skills</td>
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<td>FIRE 132</td>
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<td>Disaster Mitigation</td>
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<td>FIRE 145</td>
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<td>FIRE 151</td>
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<td>FIRE 152</td>
<td>Driver Operator Academy</td>
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<td>FIRE 160</td>
<td>Wildland Fire Control I</td>
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<td>FIRE 168</td>
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<td>FIRE 175</td>
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<td>Fire Command IB</td>
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<td>FIRE 181</td>
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<td>FIRE 185</td>
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<td>FIRE 190</td>
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<td>FIRE 193</td>
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<td>CE 100</td>
<td>Cooperative Education</td>
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TOTAL UNITS 36

COURSE OFFERINGS

Due to safety concerns, as well as minimum requirements by regulatory agencies, potential students should be aware that some courses may require participants to demonstrate physically demanding skills, along with both verbal and nonverbal communication skills.

Courses numbered under 100 are not intended for transfer credit.

FIRE 51 Fire Academy Preparation (2)

1 hour lecture - 3 hours laboratory
Note: May not be taken as an audit

Prepares individuals for the demanding requirements of the Fire Academy. Also prepares students for the Physical Ability test required to pass the North County Regional Fire Test. The test is broken down into components so that the student can more skillfully pass the exam. There will be time spent on application preparation and interview skills.

FIRE 71 Trench Rescue (.5)

1 1/2 hours laboratory
Note: Pass/No Pass grading only; may not be taken as an audit

Comprehensive instructional and extensive hands-on application of the techniques necessary to safely effect a rescue from an excavation or trenching cave-in. Topics include: critical considerations while responding to trenching emergencies; establishing and operating the Incident Command System; evaluation of cave-in scenes; specialized tool usage; shoring techniques; below grade safety procedures; patient packaging; and patient removal techniques. Upon successful completion of the course, students will receive a California State Fire Marshal certificate.

FIRE 72 Swiftwater Rescue (.5)

1 1/2 hours laboratory
Note: Pass/No Pass grading only; may not be taken as an audit

This course is intended for the training of fire service personnel in water rescue techniques. Topics include: Swiftwater rescue, submerged vehicles, drownings, use of engine/truck company equipment for water rescue, use of rafts and boats, and underwater search and recovery. Upon completion of the course, students will receive a California State Fire Marshal certificate.

FIRE 98 Fire Service Skills (.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5)

1/2, 1, 1 1/2, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2, or 5 hours lecture - 1/2, 1, 1 1/2, 2, 2 1/2, 3, 3 1/2 hours laboratory
Note: Pass/No Pass grading only; may not be taken as an audit

Provides fundamental information regarding the history and philosophy of fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire protection systems; introduction to fire protection systems.

FIRE 100 Fire Protection Organization (3)

3 hours lecture
Transfer acceptability: CSU

Provides an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire protection systems; introduction to fire protection systems.

FIRE 101 Firefighter Safety (3)

3 hours lecture
Transfer acceptability: CSU

Encompasses the many dangers associated with the job of a firefighter. Introduces the National Fallen Firefighters Foundation, Firefighter Life Safety Initiatives, and the Everyone Goes Home Program.

FIRE 115 Hazardous Materials I (3)

3 hours lecture
Transfer acceptability: CSU

A review of basic chemistry; storage, handling, laws, standards, and fire fighting practices pertaining to hazardous materials.

FIRE 118 Fire Prevention Technology (3)

3 hours lecture
Transfer acceptability: CSU

Provides fundamental informational regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation and fire safety education. Provides skills necessary for California Fire Service Training and Education system.

FIRE 120 Building Construction for Fire Protection (3)

3 hours lecture
Transfer acceptability: CSU

The study of the components of building construction that relate to fire/life safety. The development and evolution of building and fire codes will be studied in relationship to past fires/collapses in residential, commercial, and industrial occupancies.
FIRE 125 Fire Apparatus and Equipment (3)
3 hours lecture
Transfer acceptability: CSU
Driving laws, driving technique, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, and apparatus maintenance.

FIRE 130 Fire Protection Equipment and Systems (3)
3 hours lecture
Transfer acceptability: CSU
Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.

FIRE 131 Emergency Preparedness (3)
3 hours lecture
Transfer acceptability: CSU
Emergency preparedness related to natural and man-made disasters. Planning concepts and the planning process; awareness and education programs and strategies for the fire student, business, and industry.

FIRE 132 Fundamentals of Emergency Management (3)
3 hours lecture
Transfer acceptability: CSU
Emergency management systems related to career opportunities, tasks, function and responsibilities of the emergency management program director; the role in mitigation, preparedness, response and recovery. History of the civil defense department post World War II and the current emergency management system.

FIRE 133 Disaster Mitigation (3)
3 hours lecture
Transfer acceptability: CSU
Knowledge and skills required to develop programs to reduce losses from future emergencies caused by natural and man-made disasters.

FIRE 134 Fire Fighting Tactics and Strategy (3)
3 hours lecture
Transfer acceptability: CSU
Review of fire chemistry, equipment, and manpower; basic fire fighting tactics and strategy; methods of attack; preplanning fire problems.

FIRE 135 Fire Fighter I Academy (20)
10 hours lecture - 30 hours laboratory
Prerequisite: A minimum grade of "C" in EME 106 or certification as an EMT I, and admission to the Fire Fighter I Academy program
Transfer acceptability: CSU
A 656 hour fire fighter academy course which will meet the requirements mandated by the California Office of State Fire Marshal for Certified Fire Fighter I training. Covers fire ground procedures, tactics, strategy, safety methods, fire dynamics, equipment usage and deployment, and subject material pertaining to the role of fire fighters within the fire service.

FIRE 136 Wildland Fire Control I (3)
3 hours lecture
Transfer acceptability: CSU
Provides employed firefighters or fire service majors with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques.

FIRE 137 Fire Command I (2.5)
2½ hours lecture
Transfer acceptability: CSU
Instruction and simulation time pertaining to the initial decision and action processes at a working fire. Topics include the fire officer, fire behavior, fireground resources, operations, and management.

FIRE 138 Fire Prevention I (3)
3 hours lecture
Transfer acceptability: CSU
Provides the participant with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin.

FIRE 139 Fire Investigation I (2.5)
2½ hours lecture
Transfer acceptability: CSU
Provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin.

FIRE 140 Fireman I (2.5)
2½ hours lecture
Transfer acceptability: CSU
Prepares or enhances the first line supervisor's ability to supervise subordinates. It introduces key management concepts and practices utilized, and includes discussions about decision making, time management, leadership styles, personnel evaluations, and counseling guidelines.

FIRE 141 Fire Prevention I (3)
3 hours lecture
Transfer acceptability: CSU
Knowledge and skills required to develop programs to reduce losses from future emergencies caused by natural and man-made disasters.

FIRE 142 Firemanship (3)
3 hours lecture
Transfer acceptability: CSU
Fire ethics will be studied from the perspective of a professional firefighter. Students will examine and explore ethical and moral dilemmas that will confront Firefighters/EMS personnel throughout their career.

FIRE 143 Fire Protection Procedures and Systems (3)
3 hours lecture
Transfer acceptability: CSU
A broad, technical overview of fire prevention codes and ordinances, inspection practices, and key hazards.

FIRE 144 Fire Protection Code Enforcement (3)
3 hours lecture
Transfer acceptability: CSU
A descriptive analysis in tactics and strategies and scene management principles for incidents involving hazardous materials. Emphasizes identification and hazard mitigation, decontamination, protective clothing, environmental concerns, and legal issues.

FIRE 145 Fire Protection Code Enforcement (3)
3 hours lecture
Transfer acceptability: CSU
The relationship of life safety codes and requirements to building construction practices, and key hazards.

FIRE 146 Fire Protection Code Enforcement (3)
3 hours lecture
Transfer acceptability: CSU
The second in a two-course series. Topics include the Occupational Analysis, job indicators and to determine the fire's origin.

FIRE 147 Fire Protection Code Enforcement (3)
3 hours lecture
Transfer acceptability: CSU
Provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin.

FIRE 148 Fire Protection Code Enforcement (3)
3 hours lecture
Transfer acceptability: CSU
Provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin.
FIRE 197A Fire Technology General Topics (5-5)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in Fire Technology General. See Class Schedule for specific topic offered. Course title will designate subject covered.

FIRE 197B Fire Technology Command Topics (5-5)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in Fire Technology Command. See Class Schedule for specific topic offered. Course title will designate subject covered.

FIRE 197C Fire Technology Field Topics (5-5)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in Fire Technology Field. See Class Schedule for specific topic offered. Course title will designate subject covered.

Foreign Languages (FL)  
See Arabic, Chinese, French, German, Italian, Japanese, Spanish  
Contact the World Languages Department for further information about the Foreign Language Topic courses.  
760-744-1150, ext. 2390  
Office: H-201  
Contact the American Indian Studies Department for further information about the Cahuilla, Cupeño, Luiseno and Nahuatl courses.  
760-744-1150, ext. 2405  
Office: MD-140

COURSE OFFERINGS

FL 197 Foreign Languages Topics (5-5)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in Foreign Languages. See Class Schedule for specific topic offered. Course title will designate subject covered.

French (FREN)  
Contact the World Languages Department for further information.  
760-744-1150, ext. 2390  
Office: H-201  
Recommended Electives: FREN 140, 215  
TOTAL UNITS 20

PROGRAMS OF STUDY

French (AA, CA)  
This degree will provide required course work for students majoring in French. In addition, completing the course work will meet the foreign language competency requirements at many colleges and universities. Students may receive humanities credit on general education patterns for both the CSU and UC systems. It will also provide instruction for students seeking foreign language skills for personal development.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements  
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 101</td>
<td>French I</td>
</tr>
<tr>
<td>FREN 102</td>
<td>French II</td>
</tr>
<tr>
<td>FREN 201</td>
<td>French III</td>
</tr>
<tr>
<td>FREN 202</td>
<td>French IV</td>
</tr>
</tbody>
</table>

TOTAL UNITS 20  
Recommended Electives: FREN 140, 215

COURSE OFFERINGS

For students who have completed foreign language course work at the high school level, and need clarification regarding placement in college level course work, contact the Counseling Center. Universities have varying policies regarding the granting of transfer credit when there is a combination of high school and college level course work.

FREN 101 French I (5)  
5 hours lecture - 1 hour laboratory  
Transfer acceptability: CSU; UC  
This course is the first semester of French. This elementary level course is a study of the French language and French-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory. This beginning-level course is for students with no previous coursework in French.

FREN 102 French II (5)  
5 hours lecture - 1 hour laboratory  
Prerequisite: A minimum grade of ‘C’ in FREN 101 or two years of high school French  
Transfer acceptability: CSU; UC  
This course is the second semester of French. This elementary level course is a study of the French language and French-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction with self-paced study in the Foreign Language Laboratory.

FREN 140 Basic French Pronunciation (1)  
1 hour lecture  
Transfer acceptability: CSU  
Practice in the basics of French pronunciation. Emphasis on the correct use of intonation, stress, and rhythm.

FREN 197 French Topics (5-4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC  
Topics in French. See Class Schedule for specific topic offered. Course title will designate subject covered.

FREN 201 French III (5)  
5 hours lecture - 1 hour laboratory  
Prerequisite: A minimum grade of ‘C’ in FREN 102 or three years of high school French  
Transfer acceptability: CSU; UC  
This course is the third semester of French. This intermediate level course is a study of the French language and French-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in French. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in French.
ASSOCIATE DEGREE MAJOR

Select An Area of Emphasis:

Students may earn only one General Studies degree.

Emphasis in Arts and Humanities

Select 18 units minimum


American Sign Language 100, 101, 110, 205, 206

American Studies 100, 105

Anthropology 135, 155

Arabic 101, 101A, 101B, 102, 102A, 102B, 201, 201A, 201B

Architecture 120, 121, 122

Art 100, 102, 104, 105, 163, 164, 165

Chicano Studies 100, 105, 155

Chinese 101, 102, 201

Cinema 100, 102, 103, 110, 120, 122, 123

Dance 100, 101, 102, 105

Digital Broadcast Arts 100


English as a Second Language 101, 102, 103

Fashion 130

Foreign Languages 108A, 108B, 207A, 207B

French 101, 102, 201, 202

German 101, 102, 201, 202

Graphic Communications 101, 102, 115

History 105, 106

Humanities 100, 101

Interior Design 115, 120

Italian 101, 102, 201

Japanese 101, 102, 130, 201, 202

Judaic Studies 106

Legal Studies 121, 240

Multicultural Studies 115, 124, 125, 157

Music 100, 101, 102, 103, 170, 171

Philosophy 111, 113, 114, 116, 121, 122, 125, 126, 140, 141, 200, 250

Photography 125

Political Science 121, 240

Reading 110, 120


Speech 100, 105, 115

Theatre Arts 100, 140, 141, 150, 157

Emphasis in Science and Mathematics

*Select 18 units minimum

Anthropology 100, 101

Astronomy 100, 120

Biology 100, 101, 102, 105, 106, 110, 114, 118, 120, 125, 126, 130, 131, 135, 140, 141, 145, 185, 200, 201, 210, 211, 212

Business 110

Chemistry 100, 104, 105, 110, 115, 205, 210, 220, 221

CSIT-Information Technology 105

Earth Sciences 100, 115

Engineering 210

Geography 100, 110, 115

Geology 100, 110, 120, 125, 150

Health 165

Mathematics 56, 60, 63, 100, 105, 106, 110, 115, 120, 130, 135, 140, 141, 142, 205, 206, 245

Nutrition 165, 185

Oceanography 100

Physical Science 100, 101

Physics 101, 102, 120, 121, 200, 201, 230, 231, 232

Psychology 205, 210

Sociology 205

*Although not listed, related lab courses may be included as part of the 18 unit minimum.

Emphasis in Social and Behavioral Sciences

Select 18 units minimum

Administration of Justice 100

Africana Studies 100, 101, 102, 120, 126

Alcohol and Other Drug Studies 150

American Indian Studies 101, 102, 105, 115, 120, 125, 130, 140, 165

American Studies 104, 110, 200

Anthropology 105, 107, 110, 115, 125, 126, 130, 137, 140

Business 136

Chicano Studies 101, 102

Child Development 100, 110, 115

Communications 100, 105

Counseling 100, 110, 115, 120, 148

Economics 100, 101, 102, 110, 115, 120

English 150

Family and Consumer Sciences 101, 105, 136, 150

Geography 103, 105

Graphic Communications-Multimedia & Web 100

Health 100

History 101, 102, 107, 108, 121, 130, 140, 141, 150, 151

Judaic Studies 107

Legal Studies 121, 240

Multicultural Studies 100, 110, 125, 165, 200

Nutrition 120

Political Science 100, 101, 102, 110, 121, 240

Psychology 100, 105, 110, 115, 120, 125 130, 145, 150, 225, 235

Religious Studies 102, 107, 108

Sociology 100, 105, 110, 115, 120, 125, 130, 135, 145, 150, 165, 200

Speech 120, 131

*Military Service

*Palomar College will accept a minimum of 3 units of ACE recommended credit for completion of Basic/Recruit Training. Refer to the Associate Degree District Requirements, under Health and Fitness or see a Counselor for more information.
**Programs of Study**

**Advanced Geographic Information Systems (AS, CA)**

The Advanced Geographic Information Systems (GIS) Certificate program at Palomar College is designed to provide students with the technical and theoretical knowledge needed to pursue a successful career in the growing field of geospatial analysis. Through a combination of lectures, learning modules, case studies, internships, and projects, students will learn to manage, plan, and implement GIS projects.

**A.S. Degree Major or Certificate of Achievement**

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GEOG 120 Digital Earth:</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 132 Database Management and Data Acquisition</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 134 GIS Applications and Programming</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 136 Intermediate ArcGIS: GIS Analysis</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 138 GIS Internship</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>GEOG 139 GIS Specialist Internship</td>
<td>2</td>
</tr>
</tbody>
</table>

**Specialized concentration (Select 2 courses)**

- GEOG 140 Introduction to Remote Sensing and Drone Data Processing (3 units)
- GEOG 141 Transportation Systems Analysis (1 unit)
- GEOG 142 Environmental Applications of GIS (1 unit)
- GEOG 143 Introduction to Cartography and Computer Mapping (1 unit)
- GEOG 144 Internet Mapping and Application Development (3 units)
- GEOG 150 Geographic Information Science and Spatial Reasoning (3 units)

**Electives (Select 1 course)**

- CSIT 150 Introduction to SQL (3 units)
- CSWB 120 JavaScript and jQuery (3 units)
- DT/ENGR 110 Technical Drafting I with AutoCAD (3 units)

**TOTAL UNITS:** 19 – 23

**Geography (AA-T)**

The Associate in Arts in Geography for Transfer provides students with a comprehensive study of the earth from a spatial perspective. The field of geography includes several subfields. Physical geography is the study of natural phenomena such as weather, climate, geological formations, and the distribution of plants and animals. Human geography is the study of the spatial distribution of culture, language, religion, population, economics, and politics. Regional geography incorporates in-depth studies of specific geographic areas of the world. Cartography and Geographic Information Systems are analytical tools used in all subfields of geography.

Pursuant to SB1440, the following completion requirements must be met:

"(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0."

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

**AA-T Transfer Major**

**Program Requirements**

<table>
<thead>
<tr>
<th>Program Requirements</th>
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<tbody>
<tr>
<td>GEOG 100 Earth's Dynamic Environment: Introduction to Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105 People and the Environment: Introduction to Human Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives: List A (Select 6 - 7 units)**

- GEOG 100L Earth's Dynamic Environment: Physical Geography Lab (1 unit)
- GEOG 103 World Regional Geography (3 units)
- GEOG 110 Meteorology: Weather and Climate (3 units)
- GEOG 120 Digital Earth: Introduction to Geographic Information Systems (4 units)
- GEOG 125 California Geography (3 units)
- GEOG 195 Regional Field Studies in Geography (1 - 3 units)

**TOTAL UNITS:** 18 – 19

**Environmental Studies (CP)**

The Certificate of Proficiency provides an introduction to modern environmental issues and sustainability through relevant coursework in the physical sciences, life sciences, social sciences, and geographic information systems (GIS).

**Certificate of Proficiency**

<table>
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<tr>
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<tr>
<td>GEOG 100 Earth's Dynamic Environment:</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105 People and the Environment:</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 120 Digital Earth:</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 118 General Ecology (Lecture)</td>
<td>3</td>
</tr>
<tr>
<td>PHSC 101 Principles of Physical Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS:** 16
Geography

Geographic Information Systems (CP)
The Geographic Information Systems Certificate program is designed to provide entry-level training for students seeking employment in this fast-growing profession, or to upgrade the skills for those already working in the field of Geographic Information Systems. The program may be completed in one year including summer session.

CERTIFICATE OF PROFICIENCY

Program Requirements | Units
---|---
GEOG 120 Digital Earth: Introduction to Geographic Information Systems | 4
GEOG 132 Database Management and Data Acquisition | 4
GEOG 134 GIS Applications and Programming | 2
GEOG 136 Intermediate ArcGIS: GIS Analysis | 2
GEOG 138 GIS Internship | 2
or GEOG 139 GIS Specialist Internship | 2
TOTAL UNITS | 14

Unmanned Aircraft Systems (UAS) Technician (CA)
This program will prepare students for employment in all fields that currently employ Unmanned Aircraft Systems (UAS) in their operations. These fields include environmental science and management, real estate, journalism, search and rescue, agriculture, wildfire mapping, and cultural resource management. This certificate will provide students with a basic understanding of factors impacting UAS operations, and hands-on experience with processing, disseminating, and integrating data from UAS.

CERTIFICATE OF ACHIEVEMENT

Program Requirements | Units
---|---
GCIP 168 Digital Imaging with Drones | 3
GCIP 268 Digital Imaging with Drones II | 3
GEOG 110 Meteorology: Weather and Climate | 3
GEOG 120 Digital Earth: Introduction to Geographic Information Systems | 4
GEOG 140 Introduction to Remote Sensing and Drone Data Processing | 3
GEOG/GCIP/GEOL 158 Small Unmanned Aircraft Systems Procedures and Regulations | 1
TOTAL UNITS | 175

COURSE OFFERINGS

GEOG 100 Earth’s Dynamic Environment: Introduction to Physical Geography | 3
3 hours lecture
Transfer acceptability: CSU; UC
C-ID GEOG 110
A study of earth’s physical environment with emphasis on weather, climate, landform, soils, and natural vegetation and the interrelationship between these elements within unique physical landscapes.

GEOG 100L Earth’s Dynamic Environment: Physical Geography Lab | 1
3 hours laboratory
Prerequisites: A minimum grade of ‘C’ in GEOG 100, or concurrent enrollment in GEOG 100
Transfer acceptability: CSU; UC
C-ID GEOG 111
Laboratory and field investigations in weather elements, climate regions, soils, world ecosystems, and Earth’s landform features. Satisfies laboratory requirement in physical sciences.

GEOG 103 World Regional Geography | 3
3 hours lecture
Transfer acceptability: CSU; UC
C-ID GEOG 125
Critical survey of the major world regions with specific focus on physical and cultural components, such as development, economics, population and migration, political structure, and natural resources and the physical environment.

GEOG 105 People and the Environment: Introduction to Human Geography | 3
3 hours lecture
Transfer acceptability: CSU; UC
C-ID GEOG 120
Human elements of geography, including population distribution, general land use patterns, religion, trade and economy, and their correlation with the physical elements. Emphasis on world cultural regions with attention paid to interdependence and globalization.

GEOG 110 Meteorology: Weather and Climate | 3
3 hours lecture
Transfer acceptability: CSU; UC
C-ID GEOG 130
Elements of weather including temperature, moisture, air pressure, and circulation of the atmosphere; air masses, storms, and their geographical distribution. Practical applications in the use of weather instruments, and the reading and interpretation of weather maps and climatological data.

GEOG 115 Natural Disasters and Environmental Hazards | 3
3 hours lecture
Note: Cross listed as ES 115
Transfer acceptability: CSU; UC
Examination and analysis of natural disasters and environmental hazards including earthquakes, tsunamis, volcanic activity, hurricanes, climate change, flooding, mass movement, wildfire, and impacts with space objects.

GEOG 120 Digital Earth: Introduction to Geographic Information Systems | 4
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU; UC
C-ID GEOG 155
An introduction to the mapping sciences with a primary focus on Geographic Information Systems (GIS). Covers the trends, history, structure, application, hardware and software, and basic operations of GIS in order to provide a foundation for the use of GIS software. Related geographic technologies to be examined include mapping, aerial and satellite imagery, and Global Positioning Systems (GPS). The lab portion will provide introductory training in the use of ArcGIS software including identifying, evaluating, and inputting spatial data, developing and using raster and vector data sets, converting data from one form to another, and applying programming with GIS software.

GEOG 125 California Geography | 3
3 hours lecture
Transfer acceptability: CSU; UC
C-ID GEOG 140
Emphasizes issues, processes and topics relevant to both the physical and cultural geography of California and the landscapes that have evolved as a result of that interface. Topics include but are not limited to climate, landforms, vegetation, water resources, ethnic diversity, urban and agricultural regions, and the economy.

See Catalog addendum at http://www.palomar.edu/catalog
GEOG 132  Database Management and Data Acquisition (4) 
4 hours lecture  
Prerequisite: A minimum grade of 'C' in GEOG 120, or concurrent enrollment in GEOG 120  
Transfer acceptability: CSU  
Course provides students with knowledge and practical experience in the fundamentals of database management, and the acquisition, conversion, and creation of spatial data within Geographic Information Systems (GIS). Topics to include strategic design, querying, modeling techniques, data appropriateness and accuracy, hardware and software requirements, conversion of digital data, creating digital data using digitizers, scanners and Global Positioning Systems (GPS), and utilization of remote sensing, photogrammetry, and web-based data. This course provides hands-on experience with database management and data acquisition using ArcGIS software.

GEOG 134  GIS Applications and Programming (2)  
1 hour lecture - 3 hours laboratory  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU  
Provides advanced knowledge and practical experience in developing and customizing Geographic Information Systems (GIS) desktop and web applications. Students will learn the fundamentals of the Python scripting language, as well as the use of models and custom scripts. The lab activities will work with script tools, introductory web mapping interface, and modelbuilder.

GEOG 136  Intermediate ArcGIS: GIS Analysis (2)  
1 hour lecture - 3 hours laboratory  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU  
Focus on performing complex operations using the ArcGIS software. Students will gain hands-on experience in advanced querying operations, Spatial Analyst and Network Analyst, coordinate geometry, ArcGIS ModelBuilder, and the application of ArcGIS in a variety of disciplines.

GEOG 138  GIS Internship (2)  
6 hours laboratory  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU  
The Geographic Information Systems (GIS) internship is a directed program allowing students to apply classroom instruction to real-world GIS problem solving by working with a government or private agency. Students will be under the supervision of an instructor from the college and an advisor from the agency while working in one or more aspects of GIS operations.

GEOG 139  GIS Specialist Internship (2)  
6 hours laboratory  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU  
This specialist internship is targeted at students who wish to assume professional positions such as GIS Specialist and GIS Project Manager. Students will be under the supervision of an instructor from the college and an advisor from the agency while working on GIS operations that go beyond data collection and data editing.

GEOG 140  Introduction to Remote Sensing and Drone Data Processing (3)  
1 hour lecture  
Transfer acceptability: CSU  
Provides students with a basic understanding of theories and techniques used in the processing and analysis of satellite and drone (i.e. unmanned aircraft systems) data. Topics include image and sensor characteristics, information derived from satellite and drone data, and image interpretation and analysis.

GEOG 141  Transportation Systems Analysis (1)  
1 hour lecture  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU  
Provides students with more advanced practical experience in applying GIS to transportation systems. Students will gain more advanced hands-on experience using GIS as a tool to help model transportation planning, find the shortest routes, and analyze service areas and optimum routing. Introduces students to ESRI's network analyst extension and the various ways this tool can enhance transportation analysis.

GEOG 142  Environmental Applications of GIS (1)  
1 hour lecture  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU  
Provides students with knowledge and practical experience in the application of GIS in an environmental setting. We will explore how location-based GIS tools are used in many areas of environmental management such as natural disasters, biodiversity, water resources, and pollution. Case studies will be used to explore and understand how GIS is being used to help preserve the earth's resources and environment.

GEOG 143  Introduction to Cartography and Computer Mapping (1)  
1 hour lecture  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU; UC  
Provides the technical and design skills needed to create an effective map using Geographic Information Systems (GIS). Students will receive a review on map projection, coordinate systems, and datum transformation issues. In addition, students will learn about map templates, map annotations, and other tools that are used to enhance spatial data presentation.

GEOG 144  Internet Mapping and Application Development (3)  
2½ hours lecture - 1 ½ hours laboratory  
Prerequisite: A minimum grade of 'C' in GEOG 120  
Transfer acceptability: CSU  
Involves the design, creation, configuration, and optimization of geospatial services and applications to deliver content across the Internet. The student will construct web mapping applications with a variety of user interfaces.

GEOG 150  Geographic Information Science and Spatial Reasoning (3)  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in MATH 60  
Transfer acceptability: CSU; UC  
An introduction to spatial analyses and spatial distribution theories within the field of Geographic Information Science (GISci). Students will learn about fundamentals of cartography, GIS theory, global positioning systems, spatial relationships, and remote sensing in this course. Students will analyze environmental problems and the human landscape by using open-source GIS software packages to visualize, query, manipulate, and interpret temporal and spatial data.

GEOG 158  Small Unmanned Aircraft Systems Procedures and Regulations (1)  
1 hour lecture  
Note: Cross listed as GEOL 158 and GCIP 158  
Transfer acceptability: CSU  
This course will equip students with knowledge about the regulations and procedures governing the safe and legal operation of small unmanned aircraft systems (sUAS), commonly referred to as “drones”. The scope of this course coincides with the knowledge areas in the Federal Aviation Administration’s Part 107 airman knowledge test for a Remote Pilot Certificate with a sUAS rating, and is intended to prepare students who wish to become commercial sUAS pilots for the knowledge test.

GEOG 195  Regional Field Studies in Geography (1, 2, 3)  
½, 1, or 1½ hours lecture - 1½, 2, 2½, 3, 3½, 4, or 4½ hours laboratory  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
C-ID GEOG 160  
Extended field studies of the geography of selected regions. Emphasis upon field observation and interpretation of climate, meteorology, vegetation, soils, and landforms.
GEOG 197 Geography Topics (1 - 4)
1-4 hours lecture - 3 - 12 hours laboratory
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Graded only
Transfer acceptability: CSU
Topics in Geography. See Class Schedule for specific topic offered. Course title will designate subject covered.

GEOG 295 Directed Study in Geography (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by instructor
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
C-ID GEOG 160 Independent study for students who have demonstrated skills and/or proficiencies in geography subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Geology (GEOL)
Contact the Earth, Space, and Environmental Sciences Department for further information.
760-744-1150, ext. 2512
Office: NS-110G
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
Associate Degrees for transfer IGETC and CSUGE requirements are listed in Section 7 (green pages).

PROGRAMS OF STUDY

Geology (AS)
Provides the student with sufficient background to begin upper division coursework and will prepare the student for entry-level jobs that require basic geologic knowledge. The student is advised to check with the school to which he/she may wish to transfer for additional courses which may be required.

A.S. DEGREE MAJOR

Program Requirements

Group One
GEOL 100 Physical Geology 3
GEOL 100L Geology Laboratory 1
GEOL 150 Dinosaurs and Earth History 3
GEOL 150L Dinosaurs and Earth History Laboratory 1

Group Two (A minimum of 2 units from the following)
GEOL 195A Field Studies in Geology: Regional 1 - 3
GEOL 195B Field Studies in Geology: Southern California Coastal Region 1 - 3
GEOL 195C Field Studies in Geology: Salton Trough Region 1 - 3
GEOL 195D Field Studies in Geology: Colorado Plateau Region 1 - 3
GEOL 195E Field Studies in Geology: Sierra Nevada Region 1 - 3
GEOL 195F Field Studies in Geology: Death Valley Region 1 - 3

Group Three (Select at least two of the three options)
Option 1
MATH 140 Calculus with Analytic Geometry, First Course 5
MATH 141 Calculus with Analytic Geometry, Second Course 4

Option 2
PHYS 120 General Physics 4
PHYS 121 General Physics 4
PHYS 230 Principles of Physics 5
PHYS 231 Principles of Physics 5

Option 3
CHEM 110 General Chemistry 3
CHEM 110L General Chemistry Laboratory 2
CHEM 115 General Chemistry 3
CHEM 115L General Chemistry Laboratory 2

Group Four (Select at least 8 units or any course from Groups 2 or 3 not previously taken)
BIOL 100 General Biology 4
GEOG 120 Digital Earth: Introduction to Geographic Information Systems 4
GEOL 110 General Geology: National Parks and Monuments 3
GEOL/ASTR 120 Planets, Moons, and Comets 3
GEOL 197 Geology Topics 1 - 3
GEOL 295 Directed Study in Geology 1 - 3
MATH 205 Calculus with Analytic Geometry, Third Course 4
MATH 206 Calculus with Differential Equations 4
OCN 100 Oceanography Lecture 3
OCN 100L Oceanography Laboratory 1
PHYS 232 Principles of Physics 4

TOTAL UNITS 34 – 38

Geology (AS-T)

Geology is the study of the dynamic processes that shape Earth. Geology incorporates a multidisciplinary approach to describe and solve a variety of problems, including those related to human interaction with natural systems, geologic hazards, and resources. Students who successfully complete this degree will be prepared for transfer into upper division coursework in geology and will meet transfer requirements for admission to CSU.

Pursuant to SB1440, the following completion requirements must be met:
"(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0."

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

AS-T TRANSFER MAJOR

Program Requirements

GEOL 100 Physical Geology 3
GEOL 100L Geology Laboratory 1
GEOL 150 Dinosaurs and Earth History 3
GEOL 150L Dinosaurs and Earth History Laboratory 1
CHEM 110 General Chemistry 3
CHEM 110L General Chemistry Laboratory 2
CHEM 115 General Chemistry 3
CHEM 115L General Chemistry Laboratory 2
MATH 140 Calculus with Analytic Geometry, First Course 5
MATH 141 Calculus with Analytic Geometry, Second Course 4

TOTAL UNITS 27

Additional Recommended Preparation
PHYS 230 Principles of Physics 5
PHYS 231 Principles of Physics 5
BIOL 100 General Biology 4

See Catalog addendum at http://www.palomar.edu/catalog
COURSE OFFERINGS

GEOL 100  Physical Geology  (3)
3 hours lecture
Note: Together with GEOL 150, a prerequisite to upper division courses in Geology
Transfer acceptability: CSU; UC

GEOL 100L Geology Laboratory  (1)
3 hours laboratory
Prerequisite: A minimum grade of “C” in GEOL 100, or concurrent enrollment in GEOL 100
Note: May be offered as a field laboratory; satisfies lab requirement in Physical Science
Transfer acceptability: CSU; UC

GEOL 110  General Geology: National Parks and Monuments  (3)
3 hours lecture
Transfer acceptability: CSU

GEOL 120  Planets, Moons, and Comets  (3)
3 hours lecture
Note: Cross listed as ASTR 120
Transfer acceptability: CSU; UC

GEOL 150  Dinosaurs and Earth History  (3)
3 hours lecture
Prerequisite: A minimum grade of “C” in GEOL 100
Transfer acceptability: CSU; UC

GEOL 150L Dinosaurs and Earth History Laboratory  (1)
3 hours laboratory
Prerequisite: A minimum grade of “C” in GEOL 150, or concurrent enrollment in GEOL 150
Transfer acceptability: CSU; UC

GEOL 158  Small Unmanned Aircraft Systems Procedures and Regulations  (1)
1 hour lecture
Note: Cross listed as GEOG 158 and GCIP 158
Transfer acceptability: CSU

GEOL 195A Regional Field Studies in Geology: Regional  (1-3)
1/2 - 1 1/2 hours lecture - 1 1/2 - 4 1/2 hours laboratory
Prerequisite: GEOL 100, or GEOL 110
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

GEOL 195B Field Studies in Geology: Southern California Coastal Region  (1-3)
1/2 - 1 1/2 hours lecture - 1 1/2 - 4 1/2 hours laboratory
Prerequisite: GEOL 100, or GEOL 110
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

GEOL 195C Field Studies in Geology: Salton Trough Region  (1-3)
1/2 - 1 1/2 hours lecture - 1 1/2 - 4 1/2 hours laboratory
Prerequisite: GEOL 100, or GEOL 110
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

GEOL 195D Field Studies in Geology: Colorado Plateau Region  (1-3)
1/2 - 1 1/2 hours lecture - 1 1/2 - 4 1/2 hours laboratory
Prerequisite: GEOL 100, or GEOL 110
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

Small Unmanned Aircraft Systems

This course will equip students with knowledge about the regulations and procedures governing the safe and legal operation of small unmanned aircraft systems (sUAS), commonly referred to as “drones”. The scope of this course coincides with the knowledge areas in the Federal Aviation Administration’s Part 107 airman knowledge test for a Remote Pilot Certificate with a sUAS rating, and is intended to prepare students who wish to become commercial sUAS pilots for the knowledge test.

Extended field studies of the geology of western North America over weekends and during vacation and summer sessions. Emphasis upon field observation and interpretation of rock types, landforms, and structures. Locations will not duplicate those specified in Geology 195B through 195F. Localities visited may vary from year to year.

Southern California Coastal Region

Extended field studies of the geologic processes that shape the coastal region of Southern California. Emphasis on coastal processes and landforms, oceanographic climate, geologic development of the Continental Borderland and Transverse Ranges, formation and development of oil and gas resources, coastal sediment resource management, geologic hazards and human impacts in the coastal zone.

Salton Trough Region

Extended field studies of the geologic processes that shape the Salton Trough region of Southern California. Emphasis on the active plate boundary zone, including opening of the Gulf of California and development of the San Andreas Fault system. Specific topics include tectonic-related landforms, earthquake dynamics and history, stratigraphy, evolution of Cenozoic climate and fauna, geothermal resources, and Salton Sea history and environmental management.

Colorado Plateau Region

Extended field studies of the geologic processes that shape the Colorado Plateau region. Emphasis on stratigraphy and paleogeography, development and hydrology of the Colorado River system, erosional landforms, fossil and mineral resources, regional structural deformation, igneous and volcanic history, and relationship to the ancestral and modern Rocky Mountains.
GEOL 195E  Field Studies in Geology: Sierra Nevada Region  (1-3)
½ - 1½ hours lecture - 1½ - 4½ hours laboratory
Prerequisite: GEOL 100, or GEOL 110
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Extended field studies of the geologic processes and landscape evolution of the Sierra Nevada region. Emphasis on Pleistocene glacial history and glacial landforms, subduction zone processes including pluton emplacement and terrane docking history, Long Valley-Inyo Craters volcanic history, gold mineralization and mining history, regional fault systems, volcanism and uplift of the modern Sierra Nevada range.

GEOL 195F  Field Studies in Geology: Death Valley Region  (1-3)
½ - 1½ hours lecture - 1½ - 4½ hours laboratory
Prerequisite: GEOL 100, or GEOL 110
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Extended field studies of the geologic processes that shape the Death Valley region. Emphasis on the tectonic evolution of the Death Valley and the Basin and Range province, depositional history of stratigraphic units from Proterozoic through Paleozoic, volcanic history, mineral and mineral resources, structural landforms including the extensive faulting and folding, water resources, and climate history and development of desert landforms.

GEOL 197  Geology Topics  (1-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Note: Graded only
Transfer acceptability: CSU
Topics in Geology. See Class Schedule for specific topic offered. Course title will designate subject covered.

GEOL 295  Directed Study in Geology  (1, 2, 3)
Arrange 3, 6, or 9 hours laboratory with department chairperson
Prerequisite: A minimum grade of ‘C’ in GEOL 150
Transfer acceptability: CSU – UC Credit determined by UC upon review of course syllabus.
Individual study in field, library, or laboratory for interested students.

German (GERM)
Contact the World Languages Department for further information.
760-744-1150, ext. 2390
Office: H-201

COURSE OFFERINGS
For students who have completed foreign language course work at the high school level, and need clarification regarding placement in college level course work, contact the Counseling Center. Universities have varying policies regarding the granting of transfer credit when there is a combination of high school and college level course work.

GERM 101  German I  (5)
5 hours lecture - 1 hour laboratory
Transfer acceptability: CSU; UC
This course is the first semester of German. This elementary level course is a study of the German language and German-speaking cultures with emphasis on the development of communicative skills and basic structures through listening, speaking, reading, and writing. Course combines in-class instruction and practice with self-paced study in the World Languages Resource Center. No previous experience in German is required.

GERM 102  German II  (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in GERM 101 or two years of high school German
Transfer acceptability: CSU; UC
This course is the second semester of German. This elementary level course is a study of the German language and German-speaking cultures with continued emphasis on the development of communicative skills and basic structures through listening, speaking, reading and writing. Course combines in-class instruction and practice with self-paced study in the World Languages Resource Center.

GERM 201  German III  (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in GERM 102 or three years of high school German
Transfer acceptability: CSU; UC
This course is the third semester of German. This intermediate level course is a study of the German language and German-speaking cultures, focusing on the intermediate level structures and readings of culturally relevant materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in German. Course combines in-class instruction with self-paced study in the World Languages Resource Center. Class is largely conducted in German.

GERM 202  German IV  (5)
5 hours lecture
Prerequisite: A minimum grade of ‘C’ in GERM 201 or four years of high school German
Transfer acceptability: CSU; UC
This course is the fourth semester of German. It is a continued study of the German language and German-speaking cultures, focusing on the refined use of intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on the development of language skills in order to acquire communicative competence in German. The course teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students interact with more sophisticated and more varied authentic language in context. Class is conducted in German.

GERM 225  German Reading and Conversation  (3)
3 hours lecture
Prerequisite: GERM 102
Transfer acceptability: CSU; UC pending
An intermediate-level study of the German language and culture. Focus is on spoken language with readings of cultural material serving as a basis for discussion. Course is taught in German.

Graphic Communications (GC)
See also Graphic Communications - Imaging & Publishing, and Graphic Communications - Multimedia & Web
Contact the Graphic Communications Department for further information.
760-744-1150, ext. 2452
Office: MD-114
For transfer information, consult a Palomar College Counselor.

COURSE OFFERINGS
GC 100  Graphic Communications  (3)
3 hours lecture
Transfer acceptability: CSU
Explores the history and theory of effective mass communication from prehistoric cave art, to invention of the printing press, and modern graphic communication techniques using computers and the Internet. The class examines communication models revolving around imagery, type, delivery systems, and technology. The students will be able to understand and establish the effects of a clear visual message. Learning modules include slideshow, field trips, guest speakers, discussion, lectures and hands-on application with computers and the Internet to promote an understanding of graphic communications and visual messages and their impact on society.

See Catalog addendum at http://www.palomar.edu/catalog
Digital Imaging is one of the basic requirements for all electronic communication from prehistoric pictographs to present day graphic design. Topics include the invention of writing and the creation of alphabets. Other topics include world influences on print and aesthetic design, and an understanding of the stylistic, social, political, economic, and historical events as related to communication and graphic design. The emphasis is on art movements, schools of thought, influential individuals, and technology as they interrelate with the history of graphic arts. Historical topics are applied to photography, print media graphics and motion graphics. Field trips to museums and guest speakers will be integrated into the topics as appropriate.

Digital Imaging (AS, CA)
Prepares students for entry-level position as creator and processor of digital imagery. Layout and creative position in multimedia, internet publishing, digital publishing. Students may earn one or more of these by completing the Program Requirements.

Digital Prepress Operator (CP)
Prepares students to pursue entry-level employment in the printing industry in prepress, press, and finishing processes.

Electronic Publisher (CP)
Electronic publishing encompasses computer-based document layout, composition, typography, illustration, scanning, image modification, as well as reproduction and distribution. It has revolutionized print communications. There will be a major growth in this field in the future.

Graphic Communications: Emphasis in Digital Distribution
The image reproduction and design technology publishing industry—which encompasses computer-based document layout, composition, typography, illustration, image editing, digital imaging and distribution—has revolutionized the field of visual communications. There will be major growth in this field in the future. Employment opportunities will be with commercial printers, corporate electronic publishers, small print shops, service bureaus, direct mail companies, magazine publishers, advertising, typographers and compositors, freelance publications, newspaper publishers, marketing and ad agencies, and in-plant printers.

Program Requirements

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GCIP 122 Painter I</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 140 Digital Imaging/Photoshop I</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 141 Digital Imaging/Photoshop II</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 240 Digital Imaging/Photoshop III</td>
<td>3</td>
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<tr>
<td>PHOT 130 Digital Darkroom I</td>
<td>3</td>
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<tr>
<td>GCMW 120 Designing for the Social Web</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 203 Web Multimedia</td>
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TOTAL UNITS 30

Digital Imaging A.S. Degree Major or Certificate of Achievement is also listed under Photography.

CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>GCIP 105 Design for Print Production</td>
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<tr>
<td>GCIP 140 Digital Imaging/Photoshop I</td>
<td>3</td>
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<tr>
<td>GCIP 149 Page Layout and Design I</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 152 Digital Publishing/Illustrator I</td>
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</table>

TOTAL UNITS 12

Graphic Communications: Emphasis in Digital Distribution
The 21 units of Program Requirements are the same for Graphic Communications: Emphasis in Digital Distribution, Emphasis in Management, and Emphasis in Production. Students may earn one or more of these by completing the Program Requirements and Emphasis Requirements listed for each program.
## A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

### Graphic Communications: Imaging and Publishing

#### Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GC 102</td>
<td>History of the Book and Publishing: Papyrus to Pixels</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 103</td>
<td>Acrobat for Print</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 105</td>
<td>Design for Print Production</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 141</td>
<td>Digital Imaging/Photoshop II</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 149</td>
<td>Page Layout and Design I</td>
<td>3</td>
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<tr>
<td>GCIP 152</td>
<td>Digital Publishing/Illustrator I</td>
<td>3</td>
</tr>
<tr>
<td>GCIP 260</td>
<td>Portfolio Development and Presentation</td>
<td>3</td>
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</table>

#### Emphasis Requirements (7 units)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>GC 100</td>
<td>Graphic Communications</td>
<td>3</td>
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<tr>
<td>or</td>
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<tr>
<td>CSIT 105</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
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<tr>
<td>BMGT 105</td>
<td>Small Business Management</td>
<td>3</td>
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<tr>
<td>GCIP 191/</td>
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<tr>
<td>GCMW 191</td>
<td>Contracts for Graphic Designers &amp; Web Developers</td>
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</table>

**TOTAL UNITS** 28

### Emphasis Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GC 101</td>
<td>History of Graphic Communications</td>
<td>3</td>
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<tr>
<td>ARTD 210</td>
<td>Typography Design</td>
<td>3</td>
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<tr>
<td>or</td>
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<tr>
<td>GCMW 190</td>
<td>Copyright for Graphic Designers &amp; Web Developers</td>
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<tr>
<td>GCIP 249</td>
<td>Page Layout and Design II</td>
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</tbody>
</table>

**TOTAL UNITS** 28

### Graphic Communications: Emphasis in Production (AS, CA)

The image reproduction and design technology publishing industry—which encompasses computer-based document layout, composition, typography, illustration, image editing, digital imaging and distribution—has revolutionized the field of visual communications. There will be major growth in this field in the future. Employment opportunities will be with corporate digital publishers, advertising agencies, direct mail distributors, magazine and newspaper publishers, freelance publications, packaging printers and other still growing segments of the industry.

Prepares students to pursue employment focused on production in the image reproduction and design technology industry including both traditional printing processes and non-print digital imaging processes.

The 21 units of Program Requirements are the same for Graphic Communications: Emphasis in Digital Distribution, Emphasis in Management, and Emphasis in Production. Students may earn one or more of these by completing the Program Requirements, Emphasis Requirements and Electives listed for each program.

#### Program Requirements

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#### Emphasis Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>GCIP 180</td>
<td>Image Production Technologies</td>
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<td>GCIP 190</td>
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<td>GCMW 190</td>
<td>Copyright for Graphic Designers &amp; Web Developers</td>
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</tr>
<tr>
<td>GCIP 255</td>
<td>Electronic Package Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 28

### Screen Printer (CP)

Recent advances in technology have allowed screen printing to compete on a large scale with other printing processes. Productive, challenging careers are growing in the screen printing field at a steady rate. Palomar’s screen printing process classes prepare students for duties in project planning, copy preparation, camera operation, screen preparation, electronic prepress, stencil making, screen printing, and sales.

**CERTIFICATE OF PROFICIENCY**

#### Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GCIP 170</td>
<td>Screen Printing</td>
<td>3</td>
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<tr>
<td>GCIP 172</td>
<td>Textile Screen Printing</td>
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<tr>
<td>GCIP 270</td>
<td>Commercial Screen Printing</td>
<td>3</td>
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</tbody>
</table>

**TOTAL UNITS** 9

### Screen Printing (AS, CA)

Prepares students for entry-level positions in project planning, copy preparation, camera operation, screen preparation, stencil making, printing, and sales.

Due to recent advances in screen printing technology, screen printing is becoming very commercialized. These breakthroughs have allowed screen printing to compete on a large scale with other processes. Productive, challenging careers are growing in the screen printing field at a steady rate.
## A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
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<tbody>
<tr>
<td>BMGT 105 Small Business Management</td>
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<tr>
<td>GCIP 105 Design for Print Production</td>
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<tr>
<td>GCIP 140 Digital Imaging/Photoshop I</td>
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<tr>
<td>GCIP 152 Digital Publishing/Illustrator I</td>
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<tr>
<td>GCIP 170 Screen Printing</td>
<td>3</td>
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<tr>
<td>GCIP 172 Textile Screen Printing</td>
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<tr>
<td>GCIP 180 Image Production Technologies</td>
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<tr>
<td>GCIP 252 Digital Publishing/Illustrator II</td>
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<tr>
<td>GCIP 270 Commercial Screen Printing</td>
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</table>

### Electives (Select one course)

- GCIP 240 Digital Imaging/Photoshop III | 3
- GCIP 255 Electronic Package Design    | 3
- CE 100 Cooperative Education          | 1 - 4

**TOTAL UNITS** 28 - 31

## COURSE OFFERINGS

**GCIP 105** Design for Print Production (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU

Planning, design and layout of visual communication for print production. Basic computer applications for layout of business communication set using color, images, paper, and the lithographic production processes to complete the package. Emphasis is on practical application.

**GCIP 140** Digital Imaging/Photoshop I (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU; UC

The study of digital imaging and editing with Adobe Photoshop for visual, pictorial and graphic use in all media. Emphasis on creating and enhancing imagery for effective use in mass communication mediums. Focuses on basics.

**GCIP 140A** Digital Imaging/Photoshop IA (2)
1 hour lecture - 3 hours laboratory

**Transfer acceptability:** CSU; UC

Introduction to digital imaging systems with Photoshop for Graphic Communications and Multimedia. Emphasis on basic and intermediate features and functions of Photoshop with a primary focus on preparing and using optimized images for the web. Special projects facilitate the needs of more advanced students.

**GCIP 140B** Digital Imaging/Photoshop IB (2)
1 hour lecture - 3 hours laboratory

**Note:** For intermediate levels

**Transfer acceptability:** CSU; UC

A hands-on introduction to digital imaging systems with Photoshop for Graphic Communications and Multimedia. Emphasis on basic and intermediate features and functions of Photoshop with a primary focus on preparing and using optimized images for the web. Special projects facilitate the needs of more advanced students.

**GCIP 141** Digital Imaging/Photoshop II (3)
1½ hours lecture - 4½ hours laboratory

**Prerequisite:** A minimum grade of 'C' in GCIP 140

**Transfer acceptability:** CSU; UC

The concepts of intermediate digital imaging with Adobe Photoshop for visual, pictorial and graphic use in all media. Effective image creation for motion graphics, publications and Internet for effective visual communications. Focuses on the technical.

**GCIP 149** Page Layout and Design I (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU

Introduction to electronic document design and page layout, electronic composition, text and graphics entry with computers. Students will create a variety of projects including but not limited to: brochures, flyers, and newsletters.

**GCIP 150** 3D Product Development and Marketing (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU

3D product development from concept through output, packaging and launching. Use a 3D program to model, a 3D printer to output, design and print packaging for, and market a product.

**GCIP 152** Digital Publishing/Illustrator I (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU

Introduction to computer-generated digital layout. Illustrator will help the student generate new images or convert bitmapped images into PostScript. Quality levels needed for digital output will be evaluated.

**GCIP 158** Small Unmanned Aircraft Systems Procedures and Regulations (1)
1 hour lecture

**Note:** Cross listed as GEOG 158 and GEOL 158

**Transfer acceptability:** CSU

This course will equip students with knowledge about the regulations and procedures governing the safe and legal operation of small unmanned aircraft systems (sUAS), commonly referred to as “drones”. The scope of this course coincides with the knowledge areas in the Federal Aviation Administration’s Part 107 airman knowledge test for a Remote Pilot Certificate with a sUAS rating, and is intended to prepare students who wish to become commercial sUAS pilots for the knowledge test.

**GCIP 168** Digital Imaging with Drones (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU

An introduction to using drones or unmanned vehicles for digital imaging. This hands-on course covers building, operating, and outfitting for still and video imaging and image capture.

**GCIP 170** Screen Printing (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU

An introduction to the screen-printing process. Students will produce artwork, select mesh, frames, & stencil systems, inks and substrates based on printing techniques. A combination of laboratory applications and theory will provide the foundation for this course. Acquisition of technical skills through the actual production of screen-printed products is a major goal of this course.

**GCIP 172** Textile Screen Printing (3)
1½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU

Theory and applications of screen printing for textile use. Students will produce artwork, select compatible inks, stencil systems, and substrates based on textile printing applications. A combination of laboratory applications and theory will provide the foundation for this course. Acquisition of technical skills through the actual production of screen-printed products is a major goal of this course.

**GCIP 177** 3D Product Development and Marketing (3)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.

**Transfer acceptability:** CSU

Short term or special topic course, lecture or laboratory courses in various topics in Graphic Communications.

**GCIP 197A** Topics in Graphic Communications (1-4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.

**Transfer acceptability:** CSU

Graphic Communications topics in digital imaging. See Class Schedule for specific topic offered. Course title will designate subject covered.
GCIP 197C  Topics in Digital Publishing  (1-5)  Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule. Transfer acceptability: CSU Graphic Communications topics in digital publishing. See Class Schedule for specific topic offered. Course title will designate subject covered.

GCIP 197D  Topics in Graphic Processes  (1-5)  Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule. Transfer acceptability: CSU Graphic Communications topics in graphic processes. See Class Schedule for specific topic offered. Course title will designate subject covered.

GCIP 240  Digital Imaging/Photoshop III  (3)  1½ hours lecture - 4½ hours laboratory Prerequisite: A minimum grade of "C" in GCIP 140 or 141 Recommended Preparation: GCIP 140 Transfer acceptability: CSU The concepts of advanced digital imaging with Adobe Photoshop for creating and preparing images for electronic distribution. Advanced methods of editing in all venues of digital media for visual communications. Focuses on the creative.

GCIP 249  Page Layout and Design II  (3)  1½ hours lecture - 4½ hours laboratory Prerequisite: A minimum grade of "C" in GCIP 149 Recommended Preparation: GCIP 140 Utilizes current technologies for publishing to mobile devices, electronic book formats, screen media, and print. Students will learn to craft sophisticated electronic layouts by implementing typography, graphics, and multimedia into real-world projects.

GCIP 250  Advanced 3D Printing and Production  (3)  1½ hours lecture - 4½ hours laboratory An advanced exploration of 3D product development from concept through output.

GCIP 268  Digital Imaging with Drones II  (3)  1½ hours lecture - 4½ hours laboratory Prerequisite: A minimum grade of "C" in GCIP 168 Intermediate uses of unmanned vehicles for digital imaging. This hands-on course covers high resolution video, aerial imaging, intelligent mission planning, and the use of underwater remotely operated vehicles (ROV) for image capture, editing, mapping and related uses.

GCIP 270  Commercial Screen Printing  (3)  1½ hours lecture - 4½ hours laboratory Prerequisite: A minimum grade of "C" in GCIP 170 and GCIP 172 Transfer acceptability: CSU An advanced study of various commercial screen-printing applications. Printing processes, business aspects, case studies, advanced color reproduction, close register with an emphasis on quality control.

GCIP 295  Directed Study in Graphic Communications  (1, 2, 3)  3, 6, or 9 hours laboratory Prerequisite: Approval of project or research by department chairperson/director Note: Cross listed at GCMW 295 Transfer acceptability: CSU Independent study for students who have demonstrated skills and/or proficiencies in Graphic Communications subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Graphic Communications - Multimedia & Web (GCMW)
See also Graphic Communications and Graphic Communications - Imaging & Publishing

Contact the Graphic Communications Department for further information. 760-744-1150, ext. 2452 Office: MD-114 Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages). For transfer information, consult a Palomar College Counselor.

PROGRAMS OF STUDY

Digital Animation, Compositing, and Music (CP)
This program is directed at the digital design and implementation of 3D animations, graphic composting and music.

CERTIFICATE OF PROFICIENCY

Program Requirements Units
(Select five courses)
ARTI 246 Digital 3D Design and Modeling 3
ARTI 247 Digital 3D Design and Animation 3
GCMW 204 Motion Graphics for Multimedia 3
GCMW 206 Motion Graphics Production and Compositing 3
MUS 180 Computer Music I 3
MUS 184 Electronic Ensemble 1
TOTAL UNITS 13-15

Digital Animation, Compositing, and Music Certificate of Proficiency is also listed in Art and in Music.

Digital Media (CP)
This program encompasses digital video editing in digital media. The certificate prepares students for employment in the film, video, Internet, and television industries. Major growth in this industry is anticipated as Internet and television merge into one medium.

CERTIFICATE OF PROFICIENCY

Program Requirements Units
CINE/DBA 125 Beg Film/Video Field Production 3 or
GCMW 165 Digital Video Design 3
CINE/DBA 270 Digital Video Editing 3
DBA/CINE 275 Avid Editing for Television & Film 3
GCMW 204 Motion Graphics for Multimedia 3
GCMW 205 Digital Video for Multimedia 3
TOTAL UNITS 15

Digital Media Certificate of Proficiency is also listed under Digital Broadcast Arts.
### Digital Video (AS, CA)

Digital Video encompasses editing and design in using digital media. This degree prepares students for employment in the field of video, Internet, television and handheld industries.

#### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GCIP 140</td>
<td>Digital Imaging/Photoshop I</td>
</tr>
<tr>
<td>GCMW 165</td>
<td>Digital Video Design</td>
</tr>
<tr>
<td>GCMW 204</td>
<td>Motion Graphics for Multimedia</td>
</tr>
<tr>
<td>GCMW 205</td>
<td>Digital Video for Multimedia</td>
</tr>
<tr>
<td>DBA/CINE 125</td>
<td>Beginning Single Camera Film and Video Production</td>
</tr>
<tr>
<td>DBA 230</td>
<td>Digital Audio with Pro Tools</td>
</tr>
<tr>
<td>CINE/DBA 270</td>
<td>Digital Video Editing</td>
</tr>
<tr>
<td>DBA/CINE 275</td>
<td>Avid Editing for Television &amp; Film</td>
</tr>
</tbody>
</table>

#### Electives (2 courses required, 6 units minimum)
- ARTI 246 | Digital Design and Animation | 3 |
- ARTI 247 | Digital Design and Animation | 3 |
- DBA 50 | Basic Television Acting | 1 |
- DBA 110 | Broadcast and Media Writing | 3 |
- DBA 150 | Performance and Acting for Broadcast and Film | 3 |
- DBA/CINE 170 | Introduction to Video Editing | 3 |
- DT 180 | 3D Studio Max - Introduction to 3D Modeling and Animation | 3 |
- ENTT/DBA 120 | Digital Television Studio Production | 3 |
- GCMW 101 | Multimedia I | 3 |
- GCMW 104 | Intro to Audio and Video for Post Production | 3 |
- GCMW 201 | Multimedia II | 3 |
- GCMW 203 | Web Multimedia | 3 |
- GCMW 206 | Motion Graphics Production and Compositing | 3 |
- GCIP 141 | Digital Imaging/Photoshop II | 3 |
- GCIP 229 | Content Publishing for Mobile, Web and Apps | 3 |
- GCIP 152 | Digital Publishing/Illustrator I | 3 |
- GCIP 240 | Digital Imaging/Photoshop III | 3 |
- DBA/CINE 225 | Intermediate Single Camera Film and Video Production | 3 |
- GCIP 168 | Digital Imaging with Drones | 3 |

#### TOTAL UNITS
30

Digital Video A.S. Degree Major or Certificate of Achievement is also listed under Digital Broadcast Arts.

### E - Commerce Design (CP)

Provides students with a basis for understanding and participating in the design and production of e-business and e-commerce. Specific skills for the E-Commerce Design certificate include Web production, site accessibility, shopping carts, site and data management, security, privacy, and commercial site promotion. Teamwork, problem solving, production process, communication and creativity are core competencies. Upon completion of the certificate, the student may find a job as a graphic designer, Web author, or graphical user interface designer.

#### CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 157</td>
<td>E-Commerce</td>
</tr>
<tr>
<td>GCIP/ GCMW 190</td>
<td>Copyright for Graphic Designers &amp; Web Developers</td>
</tr>
<tr>
<td>GCIP/ GCMW 191</td>
<td>Contracts for Graphic Designers &amp; Web Developers</td>
</tr>
<tr>
<td>GCMW 232</td>
<td>Web Accessibility Design</td>
</tr>
<tr>
<td>GCMW 202</td>
<td>Web Page Layout II</td>
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<tr>
<td>GCMW 216</td>
<td>Web Data Base Design I</td>
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<tr>
<td>GCMW 220</td>
<td>Designing for Web Standards</td>
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<tr>
<td>GCMW 217</td>
<td>Online Store Design</td>
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</tbody>
</table>

#### TOTAL UNITS
13

### Interactive Media Design

Prepares students with specific skills necessary for employment in the field of multimedia design and production. Students may choose an emphasis in either 3D modeling and animation, which emphasizes production skills and authoring systems, or multimedia design, which emphasizes content development and visual design of multimedia productions. Both areas of emphasis collaborate on an actual multimedia production.

#### Emphasis in 3D Modeling and Animation (AS, CA)

#### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>ARTD 100</td>
<td>Concept Sketching</td>
</tr>
<tr>
<td>ARTD 220</td>
<td>Motion Design</td>
</tr>
<tr>
<td>ARTI 248</td>
<td>Digital 3D Design and Sculpture</td>
</tr>
<tr>
<td>DT/ENGR 103</td>
<td>SolidWorks Intro 3D Design and Presentation</td>
</tr>
<tr>
<td>DT 184</td>
<td>Real Time 3D Technical/Game Animation</td>
</tr>
<tr>
<td>GCMW 204</td>
<td>Motion Graphics for Multimedia</td>
</tr>
<tr>
<td>GCMW 206</td>
<td>Motion Graphics Production and Compositing</td>
</tr>
</tbody>
</table>

#### Electives (Select two courses)
- ARTD 150 | Digital Concepts/Techniques in Art | 3 |
- ARTD 220 | Motion Design | 3 |
- ARTI 248 | Digital 3D Design and Sculpture | 3 |
- DT/ENGR 103 | SolidWorks Intro 3D Design and Presentation | 3 |
- DT 184 | Real Time 3D Technical/Game Animation | 3 |
- ENTT/DBA 120 | Digital Television Studio Production | 3 |
- GCMW 101 | Multimedia I | 3 |
- GCMW 201 | Multimedia II | 3 |
- GCMW 203 | Web Multimedia | 3 |
- GCMW 206 | Motion Graphics Production and Compositing | 3 |
- GCIP 141 | Digital Imaging/Photoshop II | 3 |
- GCIP 229 | Content Publishing for Mobile, Web and Apps | 3 |
- GCIP 152 | Digital Publishing/Illustrator I | 3 |
- GCIP 240 | Digital Imaging/Photoshop III | 3 |
- GCIP 168 | Digital Imaging with Drones | 3 |
- DBA/CINE 225 | Intermediate Single Camera Film and Video Production | 3 |

#### TOTAL UNITS
29 – 30

### Emphasis in Multimedia Design (AS, CA)

#### A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>ARTD 100</td>
<td>Graphic Design I</td>
</tr>
<tr>
<td>ARTD 220</td>
<td>Motion Design</td>
</tr>
<tr>
<td>ARTI 247</td>
<td>Digital 3D Design and Animation</td>
</tr>
<tr>
<td>GC 115</td>
<td>Graphics and Media: A Multicultural Perspective</td>
</tr>
<tr>
<td>GCIP 240</td>
<td>Digital Imaging/Photoshop III</td>
</tr>
<tr>
<td>GCMW 101</td>
<td>Multimedia I</td>
</tr>
<tr>
<td>GCMW 201</td>
<td>Multimedia II</td>
</tr>
<tr>
<td>GCMW 204</td>
<td>Motion Graphics/Multimedia</td>
</tr>
</tbody>
</table>

#### Electives (Select two courses)
- ARTD 150 | Digital Concepts/Techniques in Art | 3 |
- ARTD 220 | Motion Design | 3 |
- ARTI 248 | Digital 3D Design and Sculpture | 3 |
- DT/ENGR 103 | SolidWorks Intro 3D Design and Presentation | 3 |
- DT 184 | Real Time 3D Technical/Game Animation | 3 |
- ENTT/DBA 120 | Digital Television Studio Production | 3 |
- GCMW 101 | History of Multimedia | 3 |
- GCMW 201 | Multimedia II | 3 |
- GCMW 204 | Motion Graphics/Multimedia | 3 |

#### TOTAL UNITS
30

Interactive Media Design A.S. Degree or Certificate of Achievement is also listed in Art and in Drafting Technology.
**Interactive Web Multimedia and Audio (AS, CA)**

This program is directed at interactive methods of Web production that include creation of audio for the Internet. Students will learn techniques and software to create animated and interactive Web sites and audio production for the Internet.

**A.S. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**  
**Units**  
GCWM 101 Multimedia I 3  
GCWM 102 Web Page Layout I 3  
GCWM 104 Intro to Audio and Video for Post Production 3  
GCWM 123 Audio for the Internet 3  
GCWM 112 Mobile Devices/Web Page Layout 2  
GCWM 115 Web Page Layout/Wordpress 2  
GCWM 140 Web Graphics 3  
GCWM/GCIP 190 Copyright for Graphic Designers & Web Developers 1  
GCWM/GCIP 191 Contracts for Graphic Designers & Web Developers 1  
GCWM 201 Multimedia II 3  
GCWM 203 Web Multimedia 3  
GCWM 229 Content Publishing for Mobile, Web and Apps 3  

**Electives (Select 1 course)**  
DBA 230 Digital Audio with Pro Tools 3  
GCIP 140 Digital Imaging/Photoshop I 3  
GCIP 141 Digital Imaging/Photoshop II 3  
GCIP 240 Digital Imaging/Photoshop III 3  
GCWM 100 History of Multimedia 3  
GCWM 165 Digital Video Design 3  
GCWM 202 Web Page Layout II 3  
GCWM 204 Motion Graphics for Multimedia 3  
GCWM 205 Digital Video for Multimedia 3  
GCWM 220 Designing for Web Standards 3  
GCWM 221 Best Practices for Web Design 3  
MUS 180 Computer Music I 3  

**TOTAL UNITS** 30

**Internet**

As the vast web of global and local information networks grow, several skills and forms of literacy are becoming essential for anyone who wants to obtain the full benefits of the Communications Age.

An individual's ability to capitalize on the opportunities offered by interactive communications requires mastery of these information and communication provencences:

- **Navigational skills** - The ability to move smoothly among arrays of autonomous and globally interconnected information, contacts, forums, and discussion groups in order to locate and connect to information and expertise from relevant sources.

- **Information literacy** - An understanding of which information is most useful, relevant, and reliable, as well as the ability to analyze, distill, integrate, compose, and classify information to create knowledge.

- **Distribution skills** - Frameworks for rethinking methods of packaging, presenting, providing access, and disseminating information and knowledge in this new medium.

- **Communications literacy** - Integrating new forms of information, knowledge, and message development into evolving patterns of organizational and interpersonal communication.

This certificate offers preparation skills for the above areas of emphasis involving the Internet.

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**Emphasis in Graphic Communication (AS, CA)**

**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**  
**Units**  
BUS 157 E-Commerce 3  
or  
CSWB 110 Web Site Development with HTML5/CSS3 3  
GCWM 102 Web Page Layout I 3  
GCWM 120 Designing for the Social Web 3  
GCWM 140 Web Graphics 3  
GCWM 202 Web Page Layout II 3  
GCWM 217 Online Store Design 3  
or  
GCWM 220 Designing for Web Standards 3  
GCWM 229 Content Publishing for Mobile, Web and Apps 3  

**TOTAL UNITS** 21

**New Media Compositing, Authoring and Distribution (AS, CA)**

This program is directed at alternative methods of digital video compilation and distribution. Students will learn techniques and software to compile and composite digital video for release on mobile devices, screen media and Internet formats.

**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**  
**Units**  
GCIP 240 Digital Imaging/Photoshop III 3  
GCIP 249 Page Layout and Design II 3  
GCWM 101 Multimedia I 3  
GCWM 165 Digital Video Design 3  
GCWM 201 Multimedia II 3  
GCWM 204 Motion Graphics for Multimedia 3  
GCWM 205 Digital Video for Multimedia 3  
GCWM 206 Motion Graphics Production and Compositing 3  
GCWM 229 Content Publishing for Mobile, Web and Apps 3  

**Electives (select 3 units)**  
ARTD 220 Motion Design 3  
ARTI 246 Digital 3D Design and Modeling 3  
ARTI 247 Digital 3D Design and Animation 3  
DBA 230 Digital Audio with Pro Tools 3  
CINE/DBA 270 Digital Video Editing 3  
GCIP 141 Digital Imaging/Photoshop II 3  
GCIP 150 3D Product Development and Marketing 3  
GCIP 168 Digital Imaging with Drones 3  
GCWM 105 Web Page Layout with CMS 3  
GCWM 112 Mobile Devices/Web Page Layout 2  
GCWM 115 Web Page Layout/Wordpress 2  
GCWM 123 Audio for the Internet 3  
GCWM/GCIP 191 Contracts for Graphic Designers & Web Developers 1  
GCWM 202 Web Page Layout II 3  
GCWM 203 Web Multimedia 3  

**TOTAL UNITS** 30

**Web Data Base Design (CP)**

The Web site developer must present the complexity and volume of information so that the site's visitor may make decisions quickly and accurately. Data-driven dynamic pages are also interactive, allowing the visitor to choose the information that they would like to see. The increasingly sophisticated site development for online stores and multimedia, for example, requires a range of diverse and multifaceted skills from database design, computer graphics, Web
design, site design and architecture, graphical user interface design, to cross-platform competence. The World Wide Web, as a graphical user interface, offers new career opportunities to graphic designers who have the skills to maintain sites that contain large amounts of data that changes frequently. The ability to package, share, and manage data to consumers across the Internet is in high demand. The Web Data Base Design certificate prepares for employment in dynamic business environments that need large-scale as well as smaller sites.

### CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>GCMW 202 Web Page Layout II</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 217 Online Store Design</td>
<td>3</td>
</tr>
<tr>
<td>GCMW 226 Web Data Base Design II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (Select at least one course, minimum 3 units total)**

- **BUS 180** Access Basic 1
- **GCFP/GCMW 190** Copyright for Graphic Designers & Web Developers 1
- **GCFP/GCMW 191** Contracts for Graphic Designers & Web Developers 1
- **GCFP/GCMW 192** Legal Issues for Graphic Designers & Web Developers 3
- **GCMW 105** Web Page Layout with CMS 3
- **GCMW 120** Designing for the Social Web 3
- **GCMW 154** Preparing Web Graphics 1
- **GCMW 164** Interactive Web Graphics 1
- **GCMW 216** Web Data Base Design I 3
- **GCMW 220** Designing for Web Standards 3

**TOTAL UNITS**

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<th>Units</th>
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<td>12</td>
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### COURSE OFFERINGS

**GCMW 100 History of Multimedia** 3 hours lecture

**Transfer acceptability:** CSU; UC  
Multimedia embodies the convergence of technology with content to combine text, audio, photos, art, graphics, animation, and branching and linear video. It facilitates new ways of communicating, learning, entertaining, and self-expression; multimedia is reshaping the way we do business, practice medicine, and conduct scientific research. This course traces the emergence and development of “multimedia” as a digital technology medium within historical, global, social, cultural, and aesthetic contexts.

**GCMW 101 Multimedia I** 3½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU  
Introduction to multimedia authoring software and motion graphics combining text, graphics, sound, animation, video, and audio interface to produce effective visual presentations.

**GCMW 102 Web Page Layout I** 3½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU  
A hands-on introduction to page layout for the Internet. Typographic considerations, screen layout, graphical interfaces, and structured page design for effective Internet communications.

**GCMW 104 Color Correction and Sound for Multimedia** 3½ hours lecture - 4½ hours laboratory

**Transfer acceptability:** CSU  
Introduction to finishing techniques using video and sound for post production. Includes an overview of color correction and sound design for the multimedia industry. Course will consider current practices in color grading and soundtracks for Internet, mobile devices, screen media, and physical delivery formats. This is a hands-on course using digital tools for creating and/or manipulating audio and video for multimedia projects.

**GCMW 106 Multimedia for Social Networking** 3 hours lecture  
1½ hours lecture - 4½ hours laboratory  
**Transfer acceptability:** CSU  
Introduction to the language and practice of media production as it is implemented for social networking. Students will learn the moviemaking process: preproduction; capture footage; capture audio; import digital video and audio to the computer from the camera; edit; export; and distribute. In this hands-on course, students will organize and share their photo library; create polished video and soundtracks; and produce movies, photobooks, podcasts, Websites, blogs, and custom DVDs. By becoming media producers, students will cultivate their analytical abilities as students of communication and as critics and viewers of media and cultural products which are forms of communication technology.

**GCMW 111 Web Page Layout/WordPress** 3 hours lecture  
1 hour lecture - 3 hours laboratory  
**Transfer acceptability:** CSU  
Hands-on course that explores important considerations for making Web pages attractive and usable for a wide variety of mobile devices. Explores a variety of development tools for creating and testing Web pages for mobile screens and different strategies for deployment.

**GCMW 115 Web Page Layout/WordPress** 3 hours lecture  
1 hour lecture - 3 hours laboratory  
**Transfer acceptability:** CSU  
Hands-on course on WordPress, a flexible software for blogging and content management. Students will learn WordPress installation, implementation, enhancements with add-ins, and customization of design and features.

**GCMW 120 Designing for the Social Web** 3 hours lecture  
1½ hours lecture - 4½ hours laboratory  
**Transfer acceptability:** CSU  
Focuses on the understanding of graphical user interface design for the social Web environment (Web 2.0), such as wikis, blogs, and social networks. Covers fundamental ‘Social Web’ principles in order to develop designs from a user perspective. Covers Web technologies, market research, usability and human factors, wireframe and sitemap documentation, Web design, cross browser functionality, Web typography, and search engine marketability. The development of marketable, original, and creative problem solving solutions will also be examined with an emphasis on Web branding. In this hands-on class, students will participate in social networks such as wikis and blogs.

**GCMW 150 User Experience (UX) Design** 3 hours lecture  
**Transfer acceptability:** CSU  
Examines the fundamental concepts, techniques, workflows, and tools associated with the practice of user experience design in web and mobile devices. Intended for anyone interested in learning more about creating interactive designs to ensure a quality user experience, including graphic designers, web developers, software engineers, and programmers.

**GCMW 154 Preparing Web Graphics** 3 hours laboratory

**Transfer acceptability:** CSU  
Hands-on course to produce optimized graphics for the Web: edit bitmap and vector graphics; format text; select Web-safe color; simple animation; and integrate with other Web production applications and Web pages developed with HTML and CSS.

**GCMW 164 Interactive Web Graphics** 3 hours laboratory

**Transfer acceptability:** CSU  
Hands-on course to produce optimized graphics for the Web: design complex buttons and navigation bars; image maps; slicing complex graphics; animation; batch processing; and integrate with other Web production applications and Web pages developed with HTML and CSS.
GCMW 165 Digital Video Design (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Explores project planning, setup, editing, and output of digital video. Incorporates sound, graphics, 2D animation, video, and text for full-screen, web, and DVD playback. Projects and assignments utilize transitions, superimposing, transparency and keying, video, audio, and other special effects.

GCMW 177 Search Engine Optimization (SEO) for Web Design (3)
1½ hours lecture - 4½ hours laboratory
Recommended preparation: GCMW 102
Transfer acceptability: CSU
Integrate Search Engine Optimization (SEO) techniques to improve search engine traffic, visibility, conversion, and Return on Investment (ROI). This hands-on course presents guidelines and techniques for SEO strategy and implementation. Optimize Website design through complex design technologies such as wireframes, dynamic content, pay per click, keywords, copywriting, graphics, and multimedia. Incorporate blogs, forums, and chat. Measure traffic with analytics and metrics.

GCMW 192 Legal Issues for Graphic Designers and Web Developers (3)
3 hours lecture
Note: Cross listed as GCIP 192
Transfer acceptability: CSU
This course will cover most legal issues that confront graphic designers and web developers in the day-to-day operation of the businesses. Specific legal issues will include business formation, contracts, copyright, licensing, deep linking, click wrap agreements, and the risks and benefits of self employment versus employment by a business. This course is not intended to offer legal advice. Consult with competent legal professionals for any questions regarding specific legal issues.

GCMW 197A Topics in Internet (1-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Graphic Communications topics in Internet. See Class Schedule for specific topic offered. Course title will designate subject covered.

GCMW 197B Topics in Multimedia (1-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Graphic Communications topics in multimedia. See Class Schedule for specific topic offered. Course title will designate subject covered.

GCMW 201 Multimedia II (3)
1½ hours lecture - 4½ hours laboratory
Recommended preparation: GCMW 101 or GCMW 205
Transfer acceptability: CSU
Strategies and techniques for designing successful multimedia projects in Apple Logic Pro X with emphasis on audio for Internet, video, composites and motion graphics.

GCMW 202 Web Page Layout II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in GCMW 102 and GCMW 140
Transfer acceptability: CSU
Multimedia web site design and production using advanced WYSIWYG editor that permits editing hypertext markup language (HTML) as well as designing to current standards of CSS and interactivity. Includes mechanics for site production as well as methodologies for project planning and management.

GCMW 204 Motion Graphics for Multimedia (3)
1½ hours lecture - 4½ hours laboratory
Recommended preparation: GCIP 140
Transfer acceptability: CSU
Explores project planning, setup, execution, and output of motion-based graphics. Incorporates exploration and integration of sound, graphics, digital video, 2-D animation, and text for multimedia.

GCMW 205 Digital Video for Multimedia (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Concepts, design and development of digital video production and editing skills as they relate to Internet, mobile devices, screen media, and physical delivery formats. Students will incorporate typography, graphics, animation and video into real-world projects.

GCMW 216 Web Database Design I (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in GCMW 102
Transfer acceptability: CSU
Hands-on course for creating Web pages that draw dynamic content from databases. Design and create a simple database for use on the Web. Create Web forms that add, modify or delete records from a database. Plan and implement a Web application using modern Web design tools such as Dreamweaver.

GCMW 232 Web Accessibility Design (1)
3 hours laboratory
Prerequisite: A minimum grade of 'C' in GCMW 102
Transfer acceptability: CSU
Evaluate screen and Web design techniques to maximize accessibility by people with physical disabilities. Implement tools to convert documents to accessible formats. Produce sites that are accessible. Use various resources from the World Wide Web Consortium and publishers such as checklists, examples of code, conversion tools, test tools, etc. Review legal requirements (Americans with Disabilities Act and the Web Accessibility Initiative) for various sectors to provide fully accessible Web sites.

GCMW 295 Directed Study in Graphic Communications (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Note: Cross listed as GCIP 295
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Graphic Communications subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

GCMW 296 Special Projects (1, 2, 3)
3, 6, or 9 hours laboratory
Recommended preparation: Advanced coursework or job-related experience
Note: Cross listed as GCIP 296
Transfer acceptability: CSU
Independent work on a specified sustained project which does not fit into the context of regularly scheduled classes. Students work from a contract agreed upon by the student and the instructor.
Health (HE)
Contact the Department of Health, Kinesiology and Recreation Management for further information.
760-744-1150, ext. 2462
Office: O-10

COURSE OFFERINGS

HE 100    Health Education and Fitness Dynamics (3)
3 hours lecture
Transfer acceptability: CSU; UC
Individual well being will be developed through the study of the emotional, spiritual, intellectual, social, and physical qualities of health.

HE 100L   Health Performance Lab (1,1.5,2)
3, 4.5, or 6 hours laboratory
Transfer acceptability: CSU; UC
Fitness lab course designed to develop and encourage positive attitudes and habits with regards to health education and fitness dynamics. Lab participation will primarily utilize exercise equipment as it relates to cardiovascular efficiency, body composition, muscular strength and endurance and flexibility. An individual fitness profile will be established, including pre-post testing, to determine each student's fitness accomplishments.

HE 104    Emergency Medical Responder (3)
3 hours lecture
Note: Cross listed as EME 100
Transfer acceptability: CSU; UC
C-ID KINE 101
Covers national curriculum for Emergency Medical Responder (EMR) training. Includes the study and application of emergency medical skills and procedures, basic anatomy and physiology, terminology, and prevention of disease transmission. CPR certification from the American Heart Association.

HE 165    Fundamentals of Nutrition (3)
3 hours lecture
Note: Cross listed as NUTR 165
Transfer acceptability: CSU; UC – NUTR 165, NUTR 185, BIOL 185, HE 165 combined: maximum credit, one course
The study of how food nourishes the body. Investigation of diet fads and fallacies. Eating for fitness, and planning meals for optimum health throughout the life cycle.

HE 197    Current Topics in Health (1, 2, 3)
1, 2, or 3 hours lecture
Transfer acceptability: CSU
Current issues in health education meeting student and community educational needs dealing with the social, mental, and physical aspects of personal health. Course title will designate subject covered.

Health Occupations
See Emergency Medical Education, Dental Assisting, and Nursing Education

History (HIST)
Contact the Economics, History and Political Science Department for further information.
760-744-1150, ext. 2412
Office: MD-375

History

AA-T TRANSFER MAJOR
The Associate in Arts in History for Transfer (AA-T) includes a selection of courses designed to prepare students to transfer to California State University campuses that offer bachelor's degrees in History. The degree prepares students to demonstrate basic understanding of broad historiographical trends as well as helps to develop the tools to critically analyze primary and secondary sources. The degree is ideal for students who plan to transfer for further study to pursue a baccalaureate degree in history.

Pursuant to SB440, the following completion requirements must be met:
(I) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements.
(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
(II) Obtainment of a minimum grade point average of 2.0.
ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in this major.

Required Core
HIST 101    History of the United States Through Reconstruction 3
HIST 102    History of the United States Since Reconstruction 3

List A: Select two (6 units)
HIST 107    World History To 1650 3

List B: Select one course from each area (6 units)
Area 1 Diversity (3 units) or any List A course not already used:
HIST 120    History of the Middle East from 600 to the Present 3
HIST 140    History of the Americas Through 1800 3
HIST 141    History of the Americas Since 1800 3
HIST 150    History of Latin America to 1824 3
HIST 151    History of Latin America from Independence to the Present 3

Area 2 (3 units) or any List A course not already used:
HIST 121    History of California 3
HIST 130    Women in United States History 3

TOTAL UNITS 18
COURSE OFFERINGS

HIST 101 History of the United States Through Reconstruction (3)
3 hours lecture
Note: This course plus History 102 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC – HIST 101 and 102 or AS 101 and 102 combined: maximum credit, one pair
C-ID HIST 130
Political, economic, social, and cultural development of the American people through Reconstruction with particular emphasis on the colonial period: the Revolution; constitutional development; westward expansion with emphasis on California and frontier influences; emergence of sectionalism; the Civil War and Reconstruction.

HIST 102 History of the United States Since Reconstruction (3)
3 hours lecture
Note: This course plus History 101 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC – HIST 101 and 102 or AS 101 and 102 combined: maximum credit, one pair
Political, economic, social, and cultural developments of the American people since Reconstruction. Emphasis will be on the westward and farm movements, industrial development, twentieth century reform movements, the United States as a world power, and civil rights. Special consideration will be given to the development of California state and local government.

HIST 105 History of Western Civilization Through the Reformation (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID HIST 170
A survey of ancient civilizations, Greece, Rome and medieval Europe, with emphasis on the heritage, ideas, attitudes, and institutions basic to Western Civilization.

HIST 106 History of Western Civilization Since the Reformation (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID HIST 180
Emergence of modern Europe, expansion of European power and influences; emphasis on cultural and intellectual trends which affect Western civilization in the Twenty-first Century.

HIST 107 World History to 1650 (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID HIST 150
The growth of civilizations and the interrelationships of the peoples of Europe, Asia, Africa, and America to 1650.

HIST 108 World History Since 1650 (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID HIST 160
The development of the civilizations and the interrelationships of the peoples of Europe, Asia, Africa, and America since 1650.

HIST 121 History of California (3)
3 hours lecture
Transfer acceptability: CSU; UC
The history of California from the origins of the native peoples to the present. Course focuses on the events and people who shaped the development of California with an emphasis on the many diverse cultural elements (native peoples, Hispanics, Anglo-Americans, Asians, African-Americans, Pacific Islanders, and women) involved.

HIST 130 Women in United States History (3)
3 hours lecture
Transfer acceptability: CSU; UC
A survey of the changing role, status, and contributions of women in the United States from the colonial period to the present. Their social, economic, political, and religious positions in American society are examined.

HIST 140 History of the Americas Through 1800 (3)
3 hours lecture
Note: This course plus HIST 141 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC
Surveys the evolution of the political, economic, social and institutions of the societies of Western Hemisphere from the 14th through the 18th centuries. Examines major pre Columbian Indian Cultures, European exploration and colonization, life in the colonial Americas, and the achievement of independence by the United States. Latin America, Canada, and the United States are studied from a comparative perspective. Included is consideration of the Constitution of the United States.

HIST 141 History of the Americas Since 1800 (3)
3 hours lecture
Note: This course plus HIST 140 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC
History of the American nations in the 19th and 20th centuries with emphasis on the Latin American wars of independence, inter American relations, the foreign policy of the United States and its relation to Latin America, Canada's relations with other nations of the hemisphere, and the transition of Latin American society in the 20th century.

HIST 150 History of Latin America To 1824 (3)
3 hours lecture
Transfer acceptability: CSU; UC
A survey of the historical evolution of the peoples and states of Latin America with special attention to the indigenous states and empires of the Americas, their conquest by the Iberian nations of Europe, the creation of multi racial colonial empires, and the growth of creole nationalism which lead to the overthrow of the Iberian empires at the beginning of the 19th century.

HIST 151 History of Latin America from Independence to the Present (3)
3 hours lecture
Transfer acceptability: CSU; UC
A survey of the republics of Latin America since independence that concentrates on the political evolution of these nations and the social and economic institutions that characterize the region. Special attention will be given to the contrast between the urban and rural cultures and economies, as well as the political and economic relations of the region with the world and the United States in particular.

HIST 160 History of the Middle East from 600 to the Present (3)
3 hours lecture
Recommended Preparation: HIST 107
Transfer acceptability: CSU; UC
Cross listed as MCS 160
History of the Middle East from the origins of Islam to contemporary times. Topics include the political, social, and economic development of Islam, the early caliphat es, the Crusades, the Ottoman and Safavid empires, European imperialism, and modern Middle Eastern states.

HIST 197 History Topics (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Topics in History. See Class Schedule for specific topic offered. Course title will designate subject covered.
HIST 295  Directed Study in History  
3, 6, 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.  
Independent study for students who have demonstrated a proficiency in history subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Home Economics  
See Family and Consumer Sciences, Fashion, Interior Design, Nutrition and Child Development

**Humanities (HUM)**  
Contact the English Department for further information.  
760-744-1150, ext. 2392  
Office: H-302B

**COURSE OFFERINGS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 100</td>
<td>Introduction to Humanities I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 101</td>
<td>Introduction to Humanities II</td>
<td>3</td>
</tr>
<tr>
<td>HUM 197</td>
<td>Humanities Topics</td>
<td>1-4</td>
</tr>
</tbody>
</table>

**INDUSTRIAL TECHNOLOGY (IT)**  
See Cabinet and Furniture Technology and Drafting Technology for additional courses

Contact the Trade and Industry Department for further information.  
760-744-1150, ext. 2545  
Office: T-102A  
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

**Foundations in Technical Careers (CP)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
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</tr>
<tr>
<td>MATH 115</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 148</td>
<td>C Programming using Robots</td>
<td>3</td>
</tr>
<tr>
<td>BUS 175</td>
<td>Excel Basic</td>
<td>1</td>
</tr>
<tr>
<td>BUS 176</td>
<td>Excel Intermediate</td>
<td>1</td>
</tr>
<tr>
<td>DT 175</td>
<td>Industrial Technology Capstone Project</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>AutoCAD Introduction to Computer Aided Drafting or</td>
<td>3</td>
</tr>
<tr>
<td>DT 103</td>
<td>SolidWorks Introduction to 3D Design and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>IT 197</td>
<td>Industrial Technology Topics</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS**  
16

**COURSE OFFERINGS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 108</td>
<td>Technical Mathematics</td>
<td>3</td>
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<tr>
<td>Note:</td>
<td>Cross listed as WELD 108</td>
<td></td>
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</tbody>
</table>

**TRANSFER ACCEPTABILITY: CSU**

Methods and experience in defining and solving mathematical problems in industrial technology. Special emphasis will be given to the application of these basic processes to the solution of the unique mathematical problems encountered in the areas of architecture, automotive, drafting, machine, welding and woodworking technology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IT 115</td>
<td>Industrial Safety</td>
<td>2</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as WELD 115</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSFER ACCEPTABILITY: CSU**

Prepares the student to enter the workforce in an awareness of safety. Includes a history and overview; laws and regulations; assessment, prevention, and controls; and the management of health and safety issues.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IT 120</td>
<td>Blueprint Reading for Machinists</td>
<td>3</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as WELD 120</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSFER ACCEPTABILITY: CSU**

Provide entry level machinist to learn how to visualize and interpret shop drawing for manufacturing.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IT 175</td>
<td>Industrial Technology Capstone Project</td>
<td>1</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as WELD 175</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSFER ACCEPTABILITY: CSU**

The Industrial Technology Capstone Project is a directed program allowing students to apply classroom instruction to real-world problem solving in Industrial Technology. Students can opt to complete this course under the supervision of a Palomar faculty member or a professional in the industrial technology industry.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 190</td>
<td>Manufacturing I Introduction to MasterCAM</td>
<td>3</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as DT 190/ENGR 190/WELD 190</td>
<td></td>
</tr>
</tbody>
</table>

This course will introduce the students to MasterCAM and 2D and basic 3D modeling. Students will receive instructions and drawings of parts requiring 2- or 3-axis machining. Students will design, model, program, set-up and run their parts on various machines, including plasma cutters, water jet cutters and milling machines.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 191</td>
<td>Manufacturing II Advanced MasterCAM</td>
<td>3</td>
</tr>
<tr>
<td>Note:</td>
<td>Cross listed as DT 191/DT 191/ENGR 191</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSFER ACCEPTABILITY: IT**

This course will provide students with advanced 3d modeling techniques. Students will receive instructions and drawings of parts requiring 3-axis machining with multiple set-ups. Students will design, model, program, set-up and run their parts on various Computer controlled mills and lathes.
IT 192  Manufacturing III Multi-Axis Programming and Machining  (3)
1 ½ hours lecture - 4 ½ hours laboratory
Prerequisite: IT 191
This course is designed to develop specialized 4- and 5-axis milling machine programming and skills using Mastercam. Students will receive instructions and drawings of parts requiring 4- or 5-axis milling. Students will design, model, program, set-up and run their parts on a multi-axis CNC Mill.

IT 197  Industrial Technology Topics  (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Industrial Technology. See class schedule for specific topic covered. Course title will designate subject covered.

Information Technology
See CSIT - Information Technology

Interior Design (ID)
Contact the Design and Consumer Education Department for further information.
760-744-1150, ext. 2349
Office: P-8A
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

Students should be aware that not all Interior Design courses are offered every semester. See Class Schedule or Department Chairperson for additional information.

PROGRAMS OF STUDY

Interior Design (CA)
Coordinated by educators and professional interior designers, this certificate of achievement offers an interdisciplinary approach to fundamental design, space planning, design analysis, and materials selection and specifications relating to residential and commercial spaces.
Prepares students to pursue employment in the interior design field with emphasis on retail furnishings and merchandising.

CERTIFICATE OF ACHIEVEMENT

Program Requirements
First Semester
ID 100  Interior Design  3
ID 105  Materials and Processes in Interior Design  3
BUS 125  Business English  3

Second Semester
ID 110  Professional Practices in Interior Design  3
ID 135  Fabrics for Designers  3
ID/ARCH 150  Beginning Computer Aided Drafting  3
CE 150  Cooperative Education Internship  2 - 3

TOTAL UNITS  20 - 21
Recommended Electives: ID 115, 120, 130, 145, 198

Interior Design (AS)
Coordinated by educators and professional interior designers, this A.S. degree major offers an interdisciplinary approach to fundamental design, space planning, design analysis, and materials selection and specifications relating to residential and commercial spaces.

A.S. DEGREE MAJOR

Program Requirements
First Semester
ID 100  Interior Design  3
ID 105  Materials and Processes in Interior Design  3
ID 115  History of Decorative Arts I  3
ARCH 105  Basic Architectural Drafting  3

Second Semester
ID 110  Professional Practices in Interior Design  3
ID 120  History of Decorative Arts II  3
ID 125  Presentation Methods in Interior Design I  4
ID 135  Fabrics for Designers  3
ID/ARCH 150  Beginning Computer Aided Drafting  3

Third/Fourth Semesters
ID 130  Light and Color  3
ID 140  Residential Interior Design  3
ID 141  Commercial Interior Design  3
ID 170  Space Planning  3
CE 150  Cooperative Education Internship  2 - 3

TOTAL UNITS  42 - 43
Recommended Electives: ART 100, 102, BUS 140, CI 100, ID 145, 151

COURSE OFFERINGS

ID 100  Interior Design  3 hours lecture
Transfer acceptability: CSU
The study of functional and aesthetic interior design principles used to create residential interiors. Beginning drafting, space planning, the use of color and the application of these skills in design are stressed. A survey of major twentieth-century architects and designers and their influence on design and lifestyle is analyzed. Instruction is given in furniture arrangement and selection, materials selection, lighting, and the effects of environmental design on human behavior.

ID 105  Materials and Resources  3 hours lecture
Transfer acceptability: CSU
Selection, care, and use of sustainable materials used in residential and commercial interior design.

ID 110  Professional Practices in Interior Design  3 hours lecture
Transfer acceptability: CSU
Specific business and professional practices as they apply to residential and commercial interior design. Career opportunities, personal qualifications, and skills required for employment are also presented.

ID 115  History of Decorative Arts I  3 hours lecture
Transfer acceptability: CSU
Foundation of architecture and furniture styles of the world from antiquity to the Empire period. Covers social, cultural, styles and periods. Description of dominant influences and characteristics of historical interiors, furniture, ornamental design, textiles, and the decorative arts.
ID 120 History of Decorative Arts II (3)
3 hours lecture
Transfer acceptability: CSU
The historic relationship between the decorative arts, architecture, and furniture styles of the world from the 19th century to the present. Includes Asian influences and art periods which have affected these styles. Emphasis is placed on style development as it relates to political, economic, and social forces.

ID 125 Presentation Methods in Interior Design I (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Form-space comprehension in relationship to furniture placement through residential and commercial design drawing exercises, including one- and two-point perspective problems.

ID 130 Light and Color (3)
3 hours lecture
Transfer acceptability: CSU
Principles and application of light and its effect on color and the design process in interiors, architecture, and visual merchandising. Emphasizes lighting needs, light sources, light calculations, and energy conservation.

ID 135 Fabrics for Designers (3)
3 hours lecture
Transfer acceptability: CSU
Selection, use and care of fabrics used in residential and commercial interiors. Emphasis on designer selection and specification of fabrics for upholstering furniture, window treatments, floor coverings, and accessories. Includes survey and selection of historic fabrics in interiors.

ID 140 Residential Interior Design (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in ID 100
Recommended preparation: ID 125
Transfer acceptability: CSU
Development of residential interiors from design concept to installation. Includes materials specifications and design sources. Emphasizes budget analysis, architectural drawings, furniture, and lighting plans.

ID 141 Commercial Interior Design (3)
3 hours lecture
Transfer acceptability: CSU
Development of non-residential spaces from design concept to installation. Includes health care facilities and open office interiors. Emphasizes client analysis, space planning, materials specifications, architectural drawings, lighting plans, and budget analysis.

ID 145 Kitchen Design (3)
3 hours lecture
Transfer acceptability: CSU
Focuses on the principles and procedures involved in designing the kitchen for the most efficient residential and commercial use. Concentrates on the major aspects of planning the kitchen with special consideration of location and location of equipment; arrangement of work and storage spaces; standards for appliances; health, safety, and human anatomy; San Diego Building Codes and Minimum Property Standards; detailed floor plan, working drawings, and cost estimates for labor and material.

ID 150 Beginning Computer Aided Drafting (3)
1½ hour lecture - 4½ hours laboratory
Note: Cross listed as ARCH 150
Transfer acceptability: CSU
An introduction to computer aided drafting for architecture and interior design applications using Windows based AutoCAD software and IBM compatible computers. Beginning techniques in the operation of CAD software, design processes and editing techniques, storage and retrieval of drawings, professional presentation and plotting techniques.

ID 151 Advanced Computer Aided Drafting for Designers (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Advanced applications and topics include prototype drawings, blocks and using specific libraries, isometric illustration, presentation slide shows, basic and advanced 3 D, and external references. Meets the current needs of the professional working designer.

ID 170 Space Planning (3)
3 hours lecture
Transfer acceptability: CSU
The application of programming, theory, and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized.

ID 197 Interior Design Topics (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Interior Design. See Class Schedule for specific topic offered. Course title will designate subject covered.

ID 295 Directed Study in Interior Design (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson/director
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Interior Design subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

International Business (IBUS)
Contact the Business Administration Department for further information. 760-744-1150, ext. 2488
Office: MD-341
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

International Business (AS, CA)

This program is designed to prepare individuals for a career in international business and/or management.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements | Units
--- | ---
ACCT 104 Accounting Spreadsheet Concepts | 2
ACCT 201 Financial Accounting | 4
BUS 100 Introduction to Business | 3
BUS 110 Business Mathematics | 3
BUS 155 Marketing | 3
BUS 205 Business Communication | 3
IBUS 100 Introduction to International Business and Management | 3
IBUS 105 International Marketing | 3
IBUS 110 The Cultural Environment of International Business | 3
IBUS 115 International Banking and Finance | 3
IBUS 120 Essentials of Import/Export Procedures | 3
CE 100 Cooperative Education | 2 - 4

TOTAL UNITS: 35 - 37
COURSE OFFERINGS

IBUS 100  
Introduction to International Business and Management  (3)
3 hours lecture  
Transfer acceptability: CSU
Surveys the international dimension of business including trade, financial, economic, cultural framework, foreign investment patterns, and international managerial problems and policies at the corporate level. Also covers the role of the international manager with regard to entering foreign markets and supervising operations in existing markets, and the pros and cons of protectionism.

IBUS 105  
International Marketing  (3)
3 hours lecture  
Transfer acceptability: CSU
Surveys international organizations’ basic elements for developing markets. Analyzes the market design and the techniques necessary to develop business within selected regions of the world. Discusses the impact due to differences in customs, languages, attitudes, and culture.

IBUS 110  
The Cultural Environment of International Business  (3)
3 hours lecture  
Transfer acceptability: CSU
Focuses on the cultural environment of international business affecting the conduct of four regions in the Pacific Rim: Canada, Asia, Latin America, and Russia. Students examine the nature and evolution of culture, language, education, religion, and values as they apply to business situations. Examines the differences surrounding political and managerial practices in selected societies.

IBUS 115  
International Banking and Finance  (3)
3 hours lecture  
Recommended preparation: IBUS 100
Transfer acceptability: CSU
Surveys international organizations’ basic elements for developing markets. Analyzes the market design and the techniques necessary to develop business within selected regions of the world. Discusses the impact due to differences in customs, languages, attitudes, and culture.

IBUS 120  
Essentials of Import/Export Procedures  (3)
3 hours lecture  
Transfer acceptability: CSU
Application of practical aspects of export and import procedures by international business: organization, development of foreign sales, export and import procedures, and regulations and documentation of financial operations of global trade.

IBUS 197  
International Business Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU
Topics in International Business. See Class Schedule for specific topic offered. Course title will designate subject covered.

Internet
See Graphic Communications - Multimedia and Web, and CSIT - Web Technology

Italian (ITAL)

Contact the World Languages Department for further information.  
760-744-1150, ext. 2390  
Office: H-201

COURSE OFFERINGS

ITAL 101  
Italian I  (5)
5 hours lecture - 1 hour laboratory  
Transfer acceptability: CSU; UC
This course is the first semester of Italian. This elementary level course is a study of the Italian language and Italian-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory. This beginning-level course is for students with no previous coursework in Italian.

ITAL 102  
Italian II  (5)
5 hours lecture - 1 hour laboratory  
Prerequisite: A minimum grade of ‘C’ in ITAL 101 or two years of high school Italian  
Transfer acceptability: CSU; UC
This course is the second semester of Italian at the elementary level. It is a study of the Italian language and Italian-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory. This beginning-level course is for students with at least one previous semester of Italian.

ITAL 197  
Italian Topics  (.5-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Topics in Italian. See Class Schedule for specific topic offered. Course title will designate subject covered.

ITAL 201  
Italian III  (5)
5 hours lecture - 1 hour laboratory  
Prerequisite: A minimum grade of ‘C’ in ITAL 102 or three years of high school Italian  
Transfer acceptability: CSU; UC
This course is the third semester of Italian. This intermediate level course is a study of the Italian language and Italian-speaking cultures, focusing on intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Italian. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory. Class is largely conducted in Italian.

ITAL 202  
Italian IV  (5)
5 hours lecture  
Prerequisite: ITAL 201, or  
Transfer acceptability: CSU; UC pending
Fourth semester of Italian. A continued study of the Italian language and culture, focusing on the refined use of intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on the expansion of cross-cultural awareness, as well as, the development of language skills in order to acquire communicative competence in Italian. Teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Interacts with more sophisticated authentic language in context. Conducted in Italian.
JAPN 101  Japanese I  (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of 'C' in JAPN 101, or two years of high school Japanese
Transfer acceptability: CSU; UC
This course is the first semester of Japanese. This elementary-level course is a study of the Japanese language and Japanese-speaking cultures, with emphasis on the development of communicative skills and basic structures. The course includes a study of fundamental grammar, idiomatic expressions, Hiragana and Katakana, and Kanji. Course combines in-class instruction and practice with self-paced study in the World Languages Resource Center. This beginning-level course is for students with no previous coursework in Japanese.

JAPN 102  Japanese II  (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of 'C' in JAPN 101, or two years of high school Japanese
Transfer acceptability: CSU; UC
This course is the second semester of Japanese. This elementary level course is a study of the Japanese language and Japanese-speaking cultures, with emphasis on the development of communicative skills and basic structures. The course includes a study of fundamental grammar, idiomatic expressions, Kanji (Chinese characters) in addition to Hiragana and Katakana (Japanese alphabets). Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory.

JAPN 130  Introduction of Japanese Culture and Literature  (3)
3 hours lecture
Transfer acceptability: CSU; UC
This course is designed to provide students with a broad understanding of Japanese culture and society through non-fictional and fictional literary texts and films from ancient times to present. It will include a brief survey of Japanese history as it relates to cultural developments in Japanese literature, film and the arts. There will be a special focus on critically examining literary texts and films to understand and interpret their cultural, social and historical context through primary sources (literature in translation, plays, film, anime, manga, etc.) and secondary sources (literary and cultural criticism). Select readings will introduce students to various topics including folklore, westernization, women's studies, war, and current popular culture. This course is discussion-based and will be conducted in English.

JAPN 197  Japanese Topics  (.5-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC = Credit determined by UC upon review of course syllabus.
Topics in Japanese. See Class Schedule for specific topic offered. Course title will designate subject covered.
Journalism (AA-T)

The Associate in Arts in Journalism for Transfer teaches students the methods and techniques for gathering, processing and delivering news. It prepares students for careers in print and multimedia journalism. It includes instruction in news writing and editing, reporting, multimedia story production, and professional standards and ethics.

Careers in this field include book editor, copywriter, film critic, foreign correspondent, freelance writer, online editor, multimedia story producer, journalist, magazine editor, news anchor, newspaper editor, publicist, sportswriter and technical writer. This major may also lead to many other careers. For additional possibilities, visit the Career Center.

Pursuant to SB 1440, the following completion requirements must be met:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0."

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

AA-T TRANSFER MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 100</td>
<td>Introduction to Mass Communication</td>
</tr>
<tr>
<td>JOUR 101</td>
<td>Multimedia Writing and Reporting</td>
</tr>
<tr>
<td>JOUR 105</td>
<td>Multimedia News Writing and Production</td>
</tr>
</tbody>
</table>

List A - Select 1 course

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 104</td>
<td>Introduction to Public Relations</td>
</tr>
<tr>
<td>JOUR 130</td>
<td>Writing for Online Journalism</td>
</tr>
<tr>
<td>JOUR 140/PHOT 140</td>
<td>Photojournalism</td>
</tr>
<tr>
<td>JOUR 205</td>
<td>Intermediate Multimedia News Writing and Production</td>
</tr>
</tbody>
</table>

List B - Select 2 courses

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 101</td>
<td>Principles of Economics (Macro)</td>
</tr>
<tr>
<td>or ECON 102</td>
<td>Principles of Economics (Micro)</td>
</tr>
<tr>
<td>ENG 202</td>
<td>Critical Thinking and Composition</td>
</tr>
<tr>
<td>MATH 120</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>PHIL 200</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>PHOT 100</td>
<td>Elementary Film and Darkroom Photography</td>
</tr>
<tr>
<td>*SPCH 105</td>
<td>Beginning Argumentation and Debate</td>
</tr>
</tbody>
</table>

TOTAL UNITS 18 - 19

*Course is required major preparation at CSU San Marcos (CSUSM). Students planning to transfer to CSUSM are advised to select these courses to complete this degree. For more information on this major at CSUSM, please refer to the articulation agreement at ASSIST.ORG.

Multimedia Journalism (AS, CA)

The Journalism program is designed to teach students about working in multiple media genres and prepares them to become critical producers and consumers of mass media content. Students learn how to report, write, design and work in print, web, video, and social media. The students also learn about media ethics and responsibility. The program goal is to make students better able to understand media institutions and how to add their voices to the process of shaping their cultural environment.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 101</td>
<td>Multimedia Writing and Reporting</td>
</tr>
<tr>
<td>JOUR 105</td>
<td>Multimedia News Writing and Production</td>
</tr>
<tr>
<td>JOUR 110L</td>
<td>Multimedia Journalism Laboratory</td>
</tr>
<tr>
<td>JOUR 205</td>
<td>Intermediate Multimedia News Writing and Production</td>
</tr>
<tr>
<td>JOUR 210</td>
<td>Advanced Multimedia News Production</td>
</tr>
<tr>
<td>JOUR 215</td>
<td>Advanced Multimedia News Editing</td>
</tr>
<tr>
<td>or JOUR/PHOT 140</td>
<td>Photojournalism</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Introduction to Mass Communication</td>
</tr>
<tr>
<td>COMM 104</td>
<td>Introduction to Public Relations</td>
</tr>
<tr>
<td>COMM 105</td>
<td>Race, Gender and Media Effects</td>
</tr>
<tr>
<td>POSC 101</td>
<td>Introduction to Politics and American Political Institutions</td>
</tr>
</tbody>
</table>

TOTAL UNITS 28

Recommended Electives: JOUR 103, JOUR 295

Note: JOUR 105, 205, 210, and 215 may not be taken concurrently.

COURSE OFFERINGS

JOUR 101 Multimedia Writing and Reporting (3) 3 hours lecture

Transfer acceptability: CSU

JOUR 103 Magazine Feature Writing (3) 3 hours lecture

Recommended preparation: JOUR 101

Transfer acceptability: CSU

JOUR 105 Multimedia News Writing and Production (3) 1½ hours lecture - 4½ hours laboratory

Transfer acceptability: CSU

C-ID JOUR 130

Emphasis on writing for The Telescope, Palomar’s campus newspaper. Study of story development, reporting, and interviewing according to journalism standards. Includes writing news, features, sports, and opinion stories for the print newspaper or online at www.the-telescope.com. Exposure to multimedia tools such as blogging, video editing, and photo slide shows.

JOUR 110L Multimedia Journalism Laboratory (1) 3 hours laboratory

Transfer acceptability: CSU

Practice in reporting, writing, photography or designing for the campus newspaper, The Telescope and its website, www.The-Telescope.com

See Catalog addendum at http://www.palomar.edu/catalog
JOUR 12L  Laboratory for Online Journalism  (1)
3 hours laboratory
Transfer acceptability: CSU
Practice in online reporting, writing, photographing and multimedia. Design and manage content for the newspaper and magazine websites.

JOUR 130  Writing for Online Journalism  (3)
3 hours lecture
Transfer acceptability: CSU
C-ID JOUR 120
Introduction to multimedia storytelling with a journalism emphasis. Techniques explored include use of video, photos, audio, animation, and text to convey interactive news and feature stories through the Internet and other electronic media. Also includes techniques in digital research, critical thinking, and synthesis.

JOUR 140  Photojournalism  (3)
1½ hours lecture - 4½ hours laboratory
Recommended preparation: PHOT 120
Note: Cross listed as PHOT 140
Transfer acceptability: CSU
C-ID JOUR 160
A study of the history and practice of photojournalism, providing specific application through photographing for The Telescope, Palomar College's newspaper. Student must provide own camera.

JOUR 200  Mastering Social Media  (3)
3 hours lecture
Transfer acceptability: CSU
Explores social media from a content perspective. Learn the fundamentals of social media, the theories behind writing for it, as well as the ethics and standards of information generated. Also explores how to use social media to get content to the masses.

JOUR 205  Intermediate Multimedia News Writing and Production  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
C-ID JOUR 210
Intermediate work in reporting, writing, editing and multimedia projects for The Telescope, Palomar's campus newspaper. Continuation of beat reporting, interviewing and public affairs reporting. Introduction of page layout, graphic design and photography.

JOUR 210  Advanced Multimedia News Production  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU

JOUR 215  Advanced Multimedia News Editing  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU

JOUR 295  Directed Study in Journalism  (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson or director
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Journalism subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

**Programs of Study**

**Kinesiology**

**Formerly Physical Education**

See also Athletics and Competitive Sports

Contact the Department of Health, Kinesiology and Recreation Management for further information.

760-744-1150, ext. 2459

Office: O-10

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages). Associate Degrees for transfer IGETC and CSUGE requirements are listed in Section 7 (green pages).

### CERTIFICATE OF ACHIEVEMENT

**Program Requirements**

<table>
<thead>
<tr>
<th>Program</th>
<th>Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMGT 105</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 105</td>
<td>Computer Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>EME 100/HE 104</td>
<td>Emergency Medical Responder</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 165/HE 165</td>
<td>Fundamentals of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HE 100</td>
<td>Health Education and Fitness Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Introduction to Physical Education and Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 211</td>
<td>Physiology</td>
<td>4</td>
</tr>
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</table>

**Group I (Select a minimum of 3 units)**

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 100</td>
<td>Cooperative Education</td>
</tr>
<tr>
<td>ENG 100</td>
<td>English Composition</td>
</tr>
<tr>
<td>MATH 120</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>SPCH 100</td>
<td>Oral Communication</td>
</tr>
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</table>

**Group II (Select a minimum of 3 units)**

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 170</td>
<td>Nutrition: Eating Disorders and Obesity</td>
</tr>
<tr>
<td>PSYC 115</td>
<td>The Psychology of Personal Growth and Development</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Physiological Psychology</td>
</tr>
<tr>
<td>SOC/PSYC 125</td>
<td>Human Sexuality</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Anatomy</td>
</tr>
</tbody>
</table>

**Group III (Select a minimum of 1 unit)**

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 103</td>
<td>Evaluative Fitness</td>
</tr>
<tr>
<td>KINE 125A</td>
<td>Aerobic Fitness Training Modes</td>
</tr>
<tr>
<td>KINE 125B</td>
<td>Anaerobic Fitness Training Modes</td>
</tr>
<tr>
<td>KINE 125C</td>
<td>Functional Fitness Training Modes</td>
</tr>
<tr>
<td>KINE 125D</td>
<td>Motor Fitness/Hand-Eye/Foot Skills</td>
</tr>
<tr>
<td>KINE 130</td>
<td>Individualized Fitness Exercise</td>
</tr>
<tr>
<td>KINE 165A</td>
<td>Beginning Softball</td>
</tr>
<tr>
<td>KINE 165C</td>
<td>Advanced Softball</td>
</tr>
<tr>
<td>KINE 168A</td>
<td>Beginning Soccer</td>
</tr>
<tr>
<td>KINE 168B</td>
<td>Intermediate Soccer</td>
</tr>
<tr>
<td>KINE 168C</td>
<td>Advanced Soccer</td>
</tr>
<tr>
<td>KINE 170A</td>
<td>Team Sports - Baseball Strategies</td>
</tr>
<tr>
<td>KINE 170B</td>
<td>Team Sports- Baseball Biomechanics</td>
</tr>
<tr>
<td>KINE 170C</td>
<td>Team Sports- Basketball Strategies</td>
</tr>
<tr>
<td>KINE 170D</td>
<td>Team Sports- Basketball Biomechanics</td>
</tr>
<tr>
<td>KINE 170E</td>
<td>Team Sports- Football Strategies</td>
</tr>
<tr>
<td>KINE 170F</td>
<td>Team Sports- Football Biomechanics</td>
</tr>
<tr>
<td>KINE 170G</td>
<td>Team Sports- Soccer Strategies</td>
</tr>
<tr>
<td>KINE 170H</td>
<td>Team Sports- Soccer Biomechanics</td>
</tr>
<tr>
<td>KINE 170I</td>
<td>Team Sports- Softball Strategies</td>
</tr>
<tr>
<td>KINE 170J</td>
<td>Team Sports- Softball Biomechanics</td>
</tr>
<tr>
<td>KINE 170K</td>
<td>Team Sports- Volleyball Strategies</td>
</tr>
</tbody>
</table>
Kinesiology (AA)

Provides the student with background to begin upper division coursework and serves as preparation for entry level jobs in health clubs, non-credentialed physical education and coaching positions, and as recreation aides. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

A.A. DEGREE MAJOR

Program Requirements Units
EME 100/HE 104 Emergency Medical Responder 3
HE 100 Health Education and Fitness Dynamics 3
HE/NUTR 165 Fundamentals of Nutrition 3
KINE 100 Introduction to Kinesiology 3
KINE 176 Athletic Training 3
PSYC 100 Introduction to Psychology 3
BIOL 210 Anatomy 4
BIOL 211 Physiology 4

Select 1 course (An ACS course in these sports may be substituted for one.)
HE 100L Health Performance Lab 1 - 2
KINE 128A Wellness Modalities- Cardio 1 - 2
KINE 128B Wellness Modalities-Muscular 1 - 2
KINE 128C Wellness Modalities- Functional 1 - 2
KINE 128D Wellness Modalities- Periodization 1 - 2
KINE 140A Beginning Tennis - Techniques and Analysis 1 - 2
KINE 140B Intermediate Tennis - Techniques and Analysis 1 - 2.5
KINE 140C Advanced Tennis - Techniques and Analysis 1 - 2
KINE 150A Beginning Weight Training 1 - 2
KINE 150B Intermediate Weight Training - Strength Training for Total Fitness 1 - 2
KINE 150C Advanced Weight Training - Power Lifting and Plyometrics Training 1 - 2

TOTAL UNITS 33 - 34

Kinesiology (AA-T)

The Associate in Arts in Kinesiology for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Kinesiology or similar major. A baccalaureate degree prepares students for entry into an extraordinary number of academic studies designed to prepare students to be leaders in the fields of physical activity, health, injury and disease prevention and treatment. Students who complete a Kinesiology baccalaureate degree will be prepared for a wide variety of career opportunities in such areas as education, fitness, health fitness medicine, health fitness rehabilitation, allied health and wellness, recreation and leisure, and sports related careers.

Pursuant to SB1440, the following completion requirements must be met:

“(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0.”

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.
AA-T TRANSFER MAJOR

Program Requirements
KINE 100  Introduction to Kinesiology  3
BIOL 210  Anatomy  4
BIOL 211  Physiology  4

Select a minimum of one course from three of the four areas below:

Area One: Individual Sports
KINE 117A  Beginning Golf-Techniques and Analysis  1
KINE 140A  Beginning Tennis-Techniques and Analysis  1
KINE 140B  Intermediate Tennis-Techniques and Analysis  1
KINE 140C  Advanced Tennis-Techniques and Analysis  1

Area Two: Aquatics
KINE 135A  Beginning Swimming  1

Area Three: Team Sports
KINE 155A  Beginning Volleyball-Techniques and Analysis  1
KINE 155B  Intermediate Volleyball-Techniques and Analysis  1
KINE 155C  Advanced Volleyball-Techniques and Analysis  1
KINE 166A  Beginning Basketball  1
KINE 168A  Beginning Soccer  1

Area Four: Fitness
KINE 150A  Beginning Weight Training  1
KINE 150B  Intermediate Weight Training-  Strength Training for Total Fitness  1

List A (Select two courses, 6 units)
MATH 120  Elementary Statistics  4
or
PSYC 205/  4
SOC 205  Statistics for the Behavioral Sciences  4
BIOL 100  General Biology  4
or
BIOL 101  General Biology (Lecture)  3
and
BIOL 101L  General Biology (Laboratory)  1
or
BIOL 105  Biology with a Human Emphasis  4
CHEM 110  General Chemistry  3
and
CHEM 110L  General Chemistry Laboratory  2
HE 104/  2
EME 100  Emergency Medical Responder  3
PHYS 120  General Physics  4
or
PHYS 230  Principles of Physics  5

TOTAL UNITS  21 - 24

COURSE OFFERINGS

Individual courses are not repeatable. State Regulations (Title 5, Sections 55040- 55041) also limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Kinesiology have limitations on the number of times a student may enroll. Specific information about enrollment limitations for Kinesiology classes is available at http://www.palomar.edu/schedule/restrictions.htm

Student athletes competing in an Athletic and Competitive Sport are limited to 175 contact hours per year in Kinesiology courses that focus on conditioning or skill development for that sport. Specific information about enrollment limitations for Kinesiology classes is available at http://www.palomar.edu/schedule/

Courses numbered under 50 are non-degree courses.
Courses numbered under 100 are not intended for transfer credit.

UC credit limitations: All ACS and KINE activity courses combined: maximum credit, 4 units

For transfer information, consult a Palomar College Counselor.

KINE 47  Physical Education/Kinesiology Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Non-degree Applicable

Topics in Physical Education/Kinesiology. See class schedule for specific topic covered. Course title will designate subject covered.

KINE 100  Introduction to Kinesiology  (3)
3 hours lecture
Transfer acceptability: CSU; UC

C-ID KIN 100
Introduction to an interdisciplinary approach to the study of human movement. Sub-disciplines will introduce students to the various fields closely related to Kinesiology. Focus on studying the goals and objectives of modern Kinesiology with a view toward the development of a basic philosophy and background for the professions of teaching, coaching, allied health and/or fitness career.

KINE 102  Physical Education in Elementary Schools, Movement and Theory  (3)
3 hours lecture
Transfer acceptability: CSU

Develop understanding, knowledge, and appreciation of physical education activities adapted to the needs and interests of elementary school children. Experience in planning, writing and conducting physical education programs and curriculum. Specific attention will also be given to drugs/narcotics, alcohol, and tobacco and the physiological and sociological effects of each.

KINE 114A  Beginning Walkfit  (1,1.5,2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC

Instruction and training in walking techniques for the beginning walker. Programs focusing on health, cardiovascular fitness and weight loss.

KINE 114B  Intermediate Walkfit  (1,1.5,2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC

Instruction and training in high intensity and speed walking techniques to increase aerobic capacity and calorie expenditure.

KINE 114C  Advanced Walkfit  (1-2)
½, 1, or 1½ hours lecture - 1½, 2 or 3 hours laboratory
Transfer acceptability: CSU; UC

Instruction and training in long distance walking techniques to increase endurance and distance for the advanced walker.

KINE 117A  Beginning Golf-Techniques and Analysis  (1,1.5,2)
(Formally KINE 117)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC

Introductory course teaching the history, traditions and the development of the basic skills of golf. Swing fundamentals, scoring, rules, etiquette, and course layout will be introduced. Application of golf course management skills through practice and situational play will be emphasized.

KINE 117B  Intermediate Golf-Techniques and Analysis  (1,1.5,2,2.5)
(Formally KINE 11B)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC

Designed for those students who have mastered the basic skills of beginning golf. Includes the techniques (pitching, chipping, putting, sand shots and wood shots) that should enable the intermediate student to play a successful round of golf. Situation analysis, course management and strategy will also be covered.
KINE 117C Advanced Golf - Techniques and Analysis (1, 1.5, 2)
(Formerly KINE 119)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
An advanced level course teaching skills of golf strokes and application to playing strategies. Emphasis will be on the implementation of learned specialty shots, advanced techniques, statistical performance goals and mental aspects of course management in competition.

KINE 125A Aerobic Fitness Training Modes (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
Training in cardio respiratory endurance, as it pertains to exercise programs and/or performance level. Methods to achieve training may include, but are not limited to: aquatics, running, and walking. Emphasis is on pre-testing, post-testing, and the overall development of personal fitness.

KINE 125B Anaerobic Fitness Training Modes (1, 1.5, 2)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Training in muscular strength and core fitness as it pertains to exercise programs and/or performance-level anaerobic fitness. Methods to achieve fitness may include, but are not limited to: resistance, isometric, isotonic and core exercise training exercises.

KINE 125C Functional Fitness Training Modes (1, 1.5, 2)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Training in functional fitness through exercise specific to individual occupational goals. Methods to achieve training may include, but are not limited to: flexibility, skill training, body and muscle balance and postural improvement.

KINE 125D Motor Fitness/Hand-Eye/Foot Skills (1, 1.5, 2)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Training in motor fitness skills including hand-eye and foot skills. Methods to achieve training may include, but are not limited to: speed training, and/or neuromuscular training. Emphasis is on pre-testing, post-testing and overall development of personal fitness.

KINE 128A Wellness Modalities- Cardio (1, 1.5, 2)
3, 4½ or 6 hours laboratory
Transfer acceptability: CSU; UC
Note: Open entry/Open exit; Pass/No Pass grading only; may not be taken as an audit
Cardio-respiratory conditioning through aerobic fitness programs. Activities include treadmill, stair-master, stationary biking, rowing, and elliptical machines. Individualized tests determine the cardio-respiratory conditioning program and the level of performance expected to improve overall health and fitness.

KINE 128B Wellness Modalities-Muscular (1, 1.5, 2)
3, 4½ or 6 hours laboratory
Transfer acceptability: CSU; UC
Note: Open entry/Open exit; Pass/No Pass grading only; may not be taken as an audit
Physical conditioning through individualized resistance training programs. Focus is on muscular strength, muscular endurance and core training. Activities may include, but are not limited to: body weight exercises, calisthenics, weight machines, resistance bands, kettle balls, etc.

KINE 128C Wellness Modalities- Functional (1, 1.5, 2)
3-6 hours laboratory
Transfer acceptability: CSU; UC
Note: Open entry/Open exit; Pass/No Pass grading only; may not be taken as an audit
Functional fitness training designed to apply directly to students individual fitness goals. Activities include but are not limited to exercises aimed to assist in performing activities of daily living, sport-specific training, rehabilitative programs, etc. based on the individuals physical abilities and/or physical limitations.

KINE 128D Wellness Modalities- Periodization (1, 1.5, 2)
3-6 hours laboratory
Transfer acceptability: CSU; UC
Note: Open entry/Open exit; Pass/No Pass grading only; may not be taken as an audit
Physical conditioning through the components of physical fitness: cardiorespiratory endurance, muscular strength, muscular endurance and flexibility. Initial fitness measurements determine the conditioning program, level of performance, and planned variations in individualized programs to improve overall fitness.

KINE 135A Beginning Swimming (1, 1.5, 2)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Instruction will include basic water safety techniques, proper breathing and arm and leg techniques that apply to the basic swimming strokes such as front crawl, back crawl, and treading water. The use of skill development aids will be introduced.

KINE 135B Intermediate Swimming (1, 1.5, 2)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
An introduction to intermediate swimming strokes including breaststroke and butterfly, starts, and turns. Emphasis is on basic diving and turning techniques and continued skill development and fitness conditioning.

KINE 135C Advanced Swimming (1, 1.5, 2)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Designed for the highly skilled, competitive swimmer with an emphasis on principles of advanced training programs including distance, sprint, stroke and conditioning techniques for competition.

KINE 140A Beginning Tennis: Techniques and Analysis (1-2)
(Formerly KINE 140)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Focus on the basic elements of the game of tennis for the beginning-level student. Introduces terminology, court areas, scoring and court etiquette. Fundamental techniques for the basic tennis strokes, including ground strokes, service, lob and volley.

KINE 140B Intermediate Tennis: Techniques and Analysis (1, 1.5, 2, 2.5)
(Formerly KINE 141)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Intermediate tennis for competitive play includes covering court etiquette, motorskill development and the introduction of intermediate singles and doubles strategic through competition.

KINE 140C Advanced Tennis: Techniques and Analysis (1-2)
(Formerly KINE 142)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
Advanced tennis instruction for the highly skilled competitive player. Principles on stroke development, court positioning, serving systems and game strategies associated with singles, competition, doubles competition. Tournament play will be emphasized.

KINE 150A Beginning Weight Training (1, 1.5, 2)
½, 1, or 1½ hours lecture - ½, 1, or 1½ hours laboratory
Transfer acceptability: CSU; UC
This course is for the beginner level and is designed to emphasize a Total Body Toning Program. Focusing on muscle endurance, strength, flexibility, cardiovascular efficiency, and body composition through weight resistance exercises and conditioning programs.
KINE 150B Intermediate Weight Training: Strength Training for Total Fitness  
(1, 1.5, 2)  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
This course is designed for the experienced level student and focuses on the principles of Cross Training for muscular strength development: explores the science and benefits of developing skeletal-muscular and cardiovascular-aerobic fitness via intense exercise with resistance weights equipment.

KINE 150C Advanced Weight Training: Power Lifting and Plyometrics Training  
(1, 1.5, 2)  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
This course is designed for the advanced level student and will provide the opportunity, understanding, and appreciation of Power Lift Training through a system of heavy resistance (and low repetition) exercises and Plyometric training that build power in large muscle groups.

KINE 155A Beginning Volleyball: Techniques and Analysis  
(Formerly KINE 155)  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Focus on basic skills and fundamentals for individual beginning volleyball students. Includes the development of passing, setting, hitting, serving, conditioning and safety. Emphasis on knowledge of rules and principles of the sport of volleyball.

KINE 155B Intermediate Volleyball: Techniques and Analysis  
(Formerly KINE 156)  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Development of volleyball skills for the experienced participant. Emphasis on the execution of individual and team offensive and defensive strategies and communication systems.

KINE 155C Advanced Volleyball: Techniques and Analysis  
(Formerly KINE 157)  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Advanced skill work, individual techniques, conditioning and competitive offensive and defensive strategies for the high skilled player.

KINE 160A Beginning Basketball  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Basic offensive and defensive patterns will be introduced.

KINE 160B Intermediate Basketball  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Basketball techniques, biomechanics, offensive and defensive patterns for the experienced player.

KINE 160C Advanced Basketball  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Advanced Basketball techniques including individual skills and team principles. Sophisticated team play, defensive sets and offensive patterns for the highly skilled participant.

KINE 168A Beginning Soccer  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Focus on the basic skills and individual fundamentals for the beginning soccer student. Includes the development of ball handling, passing, receiving, heading, goalkeeping, defending, conditioning and safety. Emphasis on knowledge of rules and principles of the sport of soccer.

KINE 168B Intermediate Soccer  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Focus on offensive and defensive skills for the experienced participant. Emphasis on the execution of individual and team offensive and defensive strategies and communication systems.

KINE 168C Advanced Soccer  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Advanced skill work, individual techniques, conditioning and competitive offensive and defensive strategies for the highly skilled player.

KINE 170A Team Sports - Baseball Strategies  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Instruction in team strategies in the sport of Baseball for the experienced competitor. Instruction includes individual and team principles, tactics, and communication systems as they apply to offensive and defensive strategy.

KINE 170B Team Sports - Baseball Biomechanics  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Biomechanical applications and participation for the experienced competitor, including individual and team skills and techniques as they apply to offense and defense in the sport of Baseball.

KINE 170C Team Sports - Basketball Strategies  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Theory, philosophy and strategies for the highly skilled competitor in the sport of Basketball.

KINE 170D Team Sports - Basketball Biomechanics  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Progressive application of biomechanical movement to position skills through participation in team sports for basketball.

KINE 170E Team Sports - Football Strategies  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Instruction in individual and team theory, philosophy, and strategies in the sport of Football.

KINE 170F Team Sports - Football Biomechanics  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Progressive application of biomechanical movement to position skills through participation in team sports for football.

KINE 170G Team Sports - Soccer Strategies  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Instruction in theory, philosophy and strategies in the sport of Soccer for the experienced competitor.

KINE 170H Team Sports - Soccer Biomechanics  
½, 1, or 1½ hours lecture - ½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Focus on individual soccer skills, strength training, conditioning and biomechanical application of techniques for the highly skilled competitor. Emphasis on offensive and defensive skills in a team setting.
KINE 170I  Team Sports- Softball Strategies  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
Instruction in theory, philosophy and strategies in the sport of Softball for the highly-skilled competitor.

KINE 170J  Team Sports- Softball Biomechanics  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
Progressive application of biomechanical movement to position skills through participation in team sports for softball.

KINE 170O  Team Sports- Wrestling Strategies  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
Instruction in theory, philosophy, competition strategies and fitness concepts in the sport of Wrestling for the experienced competitor.

KINE 170P  Team Sports- Wrestling Biomechanics  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
Biomechanical movement patterns specific to skills and techniques in wrestling. Training modes and conditioning parameters necessary for competition will be emphasized.

KINE 175A  Psychology of Specific Athletic Competition – Contact  (2)
2 hours lecture
Transfer acceptability: CSU
Psychological, mental, and physical preparation for the competitive athlete.

KINE 175B  Psychology of Specific Athletic Competition – Minimal Contact  (2)
2 hours lecture
Transfer acceptability: CSU
Psychological, mental, and physical preparation for the competitive athlete.

KINE 175C  Psychology of Specific Athletic Competition – Skilled  (2)
2 hours lecture
Transfer acceptability: CSU
Psychological, mental, and physical preparation for the competitive athlete.

KINE 175D  Psychology of Specific Athletic Competition – Non-Contact  (2)
2 hours lecture
Transfer acceptability: CSU
Psychological, mental, and physical preparation for the competitive athlete.

KINE 176  Athletic Training  (3)
3 hours lecture
Transfer acceptability: CSU; UC
An overview of the field of sports medicine with an emphasis on the prevention, recognition, evaluation, first aid, and treatment of athletic injuries.

KINE 181  Adaptive Aquatics  (1)
3 hours laboratory
Transfer acceptability: CSU; UC
Basic swimming, survival strokes, and water orientation adapted to individual student’s disability.

KINE 182  Adaptive Weight Training  (1)
3 hours laboratory
Transfer acceptability: CSU; UC
Resistance activities designed to meet specific needs of the student with a disability. Development and maintenance of a level of strength, flexibility, and cardiovascular endurance in order to facilitate independence of movement and rehabilitation of specific muscle groups.

KINE 183  Adaptive Skiing  (1, 1.5)
3 or 4½ hours laboratory
Transfer acceptability: CSU; UC
Snow skiing using adapted equipment where appropriate. Field trip to ski area required. Expenses, except for transportation, to be borne by student.

KINE 184  Adaptive Body Conditioning  (1)
3 hours laboratory
Transfer acceptability: CSU; UC
Training to increase endurance, flexibility, and strength. Emphasis on individual fitness profile.

KINE 190  Theory of Softball  (2)
2 hours lecture
Transfer acceptability: CSU; UC
Fastpitch softball rules, playing techniques, coaching strategies, and practice organization.

KINE 197  Topics in Physical Education and Kinesiology  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Physical Education and Kinesiology. See Class Schedule for specific topic offered. Course title will designate subject covered.

KINE 204A  Off Season Sports Conditioning I - Aerobic/Anaerobic Development  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU; UC
Aerobic and Anaerobic maintenance training program for men and women in intercollegiate sports. Selected skill and agility exercise will be practiced to enhance quickness, coordination, balance, reaction time and overall motor skill training techniques.

KINE 204B  Off Season Conditioning II- Motor Skill Development and Application  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
An intensified out of season skill development program for men and women in intercollegiate sports. Selected skill and agility exercise will be practiced to enhance quickness, coordination, balance, reaction time and overall motor skill training techniques.

KINE 205A  In Season Sports Conditioning I - Aerobic and Anaerobic  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Note: May be open entry/open exit
Transfer acceptability: CSU; UC
Aerobic and Anaerobic maintenance training program for men and women in intercollegiate sports during season. Sports specific program will consist of cardiovascular, muscular strength and endurance training modes and their application to competition.

KINE 205B  In Season Conditioning II- Fine Motor Skills Maintenance  (1, 1.5, 2)
½, 1, or 1½ hours lecture - 1½, 2, or 3 hours laboratory
Transfer acceptability: CSU; UC
Maintenance training program for men and women in intercollegiate sports during season. Proper use of weights will be emphasized. Sports specific agility program, eye hand and foot speed/endurance work, and motor skill efficiency will be enhanced through use of different in season conditioning parameters.
KINE 210  Professional Prep for Football - Theory and Mental Preparation (3)
Transfer acceptability: CSU; UC
Emphasis on rules, individual and team strategies, mental preparation for competition, weekly practice, philosophies, coaching theories and current trends for the sport of Football.

KINE 210L  Professional Prep for Football Lab - Biomechanic Application (1, 1.5)
Transfer acceptability: CSU; UC
Biomechanical application of fundamental skills with emphasis on strategy, skill development, preparation for competition, weekly practice schedules, and trends for the sport of Football.

KINE 211L  Professional Preparation for Basketball Lab (1, 1.5)
Transfer acceptability: CSU; UC
Biomechanical applications of individual and team Basketball skills, techniques and strategies.

KINE 212  Professional Prep for Baseball - Theory and Mental Preparation (3)
Transfer acceptability: CSU; UC
Emphasis on history, rules, individual and team strategies, mental preparation for competition. Practice planning, coaching theories and philosophies and trends in the sport of Baseball.

KINE 212L  Professional Prep for Baseball Lab - Biomechanic Application (1, 1.5)
Transfer acceptability: CSU; UC
This course will focus on the biomechanical application of individual and team Baseball skills, techniques and strategy. Specific drills, communication systems for respective positions and the development of bunting, hitting, pitching and baserunning mechanics will be emphasized.

KINE 215L  Professional Prep Wrestling Lab - Biomechanic Application (1, 1.5)
Transfer acceptability: CSU; UC
Biomechanical application of wrestling styles, individual strategy and skill development for competition. Emphasis on pre-match preparation including goal setting and drill progressions.

KINE 216L  Professional Prep for Golf Lab - Biomechanic Application (1, 1.5)
Transfer acceptability: CSU; UC
Biomechanical application of fundamental skills with emphasis on technique, competition strategy, trends, preparation for competition and weekly practice schedules for the sport of Golf.

KINE 217L  Professional Prep Tennis Lab - Biomechanic Application (1, 1.5)
Transfer acceptability: CSU; UC
Focus on the biomechanical application of Tennis skills and techniques. Emphasis on practice drills for doubles and singles competition including ground strokes and short court strokes.

KINE 219  Lifeguarding (1.5)
Prerequisite: Ability to swim 500 yards continuously
Transfer acceptability: CSU; UC
Follows American Red Cross curriculum lifeguard training and professional rescue CPR. National certifications can be earned upon successful completion of two topic areas. An individual will have basic preparation for aquatic lifeguard job opportunities in California.

KINE 231  Water Safety Instruction (3)
Transfer acceptability: CSU; UC
American Red Cross Instructor candidate training and water safety instruction. Follows the National Red Cross instructor course, learning levels of basic swim instruction, aquatic activities, and emergency rescue. National certifications can be earned by students 17 years of age or older upon successful completion of topics. Prepares an individual for teaching job opportunities at an aquatic facility.

KINE 295  Directed Study in Physical Education and Kinesiology (1, 2, 3)
Prerequisite: Approval of project or research by department chairperson/director
Transfer acceptability: CSU
Independent study for students who have demonstrated skills and/or proficiencies in Physical Education subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Legal Studies (LS)
Contact the Business Administration Department for further information.
760-744-1150, ext. 2488
Office: MD-341
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
For transfer information, consult a Palomar College Counselor.

PROGRAM OF STUDY

Legal Studies (AA)
The Legal Studies major leads to an A.A. degree or transfer program, providing students with general knowledge of the philosophy of law, the legal process, legal institutions, and legal reasoning. This is not a paralegal or a para-professional major but will prepare students for careers within the legal profession.

A.A. DEGREE MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>LS 105*</td>
<td>Legal Communications and Methods</td>
<td>3</td>
</tr>
<tr>
<td>LS 110</td>
<td>Computer Skills for the Legal Profession</td>
<td>2</td>
</tr>
<tr>
<td>LS/POSC 121*</td>
<td>Introduction to Law</td>
<td>3</td>
</tr>
<tr>
<td>LS 145*</td>
<td>Legal Ethics</td>
<td>3</td>
</tr>
<tr>
<td>LS 240</td>
<td>Civil Liberties and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>LS 261</td>
<td>Torts and Personal Injury</td>
<td>3</td>
</tr>
<tr>
<td>LS 290</td>
<td>Contemporary Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td>POSC 101</td>
<td>Introduction to Politics and American Political Institutions</td>
<td>3</td>
</tr>
<tr>
<td>POSC 102</td>
<td>Introduction to United States and California Governments</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives: (Select 6 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 100</td>
<td>Introduction To Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>AJ 104</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>BUS 115</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUS 117</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>LS 170</td>
<td>Alternative Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 200</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>POSC 110</td>
<td>Introduction to World Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 32
Legal Studies students may major or minor in Law and Society upon transfer to the University of California, San Diego.

Students who wish to double major at UCSD will be afforded maximum flexibility in the selection of elective courses.

*Transfer students to University of California, San Diego extension Paralegal certificate program will receive credit for the asterisked courses.

Legal Studies students should seek early advising for transfer.

**PROGRAM OF STUDY**

**Legal Support Assistant (CP)**

For students who are interested in working within the legal field. This certificate program prepares the student for entry-level legal work, or enhances the skills of those students already working in law offices, corporations, the courts, or government agencies.

A Certificate of Proficiency will be awarded to students who successfully complete the courses listed below.

**CERTIFICATE OF PROFICIENCY**

**Program Requirements**

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS 105 Legal Communications and Methods</td>
<td>3</td>
</tr>
<tr>
<td>LS 110 Computer Skills for the Legal Profession</td>
<td>2</td>
</tr>
<tr>
<td>LS/POSC 121* Introduction to Law</td>
<td>3</td>
</tr>
<tr>
<td>LS 145 Legal Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125 Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 165 Beginning Keyboard</td>
<td>2</td>
</tr>
</tbody>
</table>

* Demonstrates the ability to type 35 words per minute

**TOTAL UNITS** 14 - 16

Recommended Electives: BUS 173

**COURSE OFFERINGS**

**LS 105** Legal Communications and Methods (3)

*3 hours lecture

**Note:** May not be taken for Pass/No Pass grading

**Transfer acceptability:** CSU

This course is an introduction to legal writing and research. The course begins with an overview of basic writing skills and preparation of legal correspondence. In addition, the course reviews the use of proper legal citations, and the drafting of legal memoranda. Basic research methods are reviewed to introduce the student to legal research and analysis.

**LS 110** Computer Skills for the Legal Profession (2)

*1 hour lecture - 3 hours laboratory

**Transfer acceptability:** CSU

A comprehensive hands-on study of computer software applications in the legal environment to include Word, Excel, Access, PowerPoint, PDF files, scanning, internet literacy and specific legal software.

**LS 121** Introduction to Law (3)

*3 hours lecture

**Note:** Cross listed as POSC 121

**Transfer acceptability:** CSU; UC - BUS 115, 116, 117, LS 121 combined: maximum credit, one course

An introduction to law and the legal system. Includes an examination of the federal and state court system, criminal law, civil law, administrative law, and procedural law.

**Library Technology (LT)**

Contact the Library and Information Technology Department for further information.
760-744-1150, ext. 2666
Office: LL-213B

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

**PROGRAM OF STUDY**

**Library and Information Technology (AS, CA)**

Provides training for students desiring employment as library technical assistants and retraining for those reentering the labor market.

**A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT 100 Introduction to Libraries/Information Services</td>
<td>3</td>
</tr>
<tr>
<td>LT 110 Library Operational Skills/Technical Services</td>
<td>3</td>
</tr>
<tr>
<td>LT 115 Library Operational Skills/Public Services</td>
<td>3</td>
</tr>
<tr>
<td>LT 120 Information Sources and Services/Reference</td>
<td>3</td>
</tr>
<tr>
<td>LT 125 Developing Information Literacy Skills</td>
<td>1</td>
</tr>
<tr>
<td>LT 130 Library Media and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>
LT 140 Library Services for Children and Young Adults (3)
3 hours lecture
Transfer acceptability: CSU
Practical use of children's and young adults' materials for readers' advisory, research, and reference service in school library/media centers and public library youth services' departments. Current trends, concerns, and methodology for youth programming and literature activities will be covered.

LT 197 Topics in Library Technology (1.5-3)
Units awarded in topics courses are dependent upon the number of lecture hours required of the student. Refer to Class Schedule.
Transfer acceptability: CSU
Selected topics in Library Technology. Refer to the Class Schedule for topics covered.

Mathematics (MATH)

Contact the Mathematics Department for further information.
760-744-1150, ext. 2535
Office: P-2
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
Associate Degrees for transfer IGETC and CSUGE requirements are listed in Section 7 (green pages).

Any student wishing to earn an A.S. Degree must meet competence requirements at the MATH 60 level. Methods by which a student can demonstrate competence are listed under “Competence Requirements” in front of this catalog. Students wishing to enroll in MATH 50, 50A, 56, 60, 110, 115, 120, 135 and 140 must participate in the mathematics placement process or meet the prerequisite listed in the catalog. The mathematics placement test may be taken two times within a two year period, through the Palomar College Counseling Center. The assessment and placement process determines eligibility for enrollment in these courses.

PROGRAMS OF STUDY

Mathematics (AS-T)
The Associate in Science in Mathematics for Transfer provides students the opportunity to meet lower division transfer requirements for a major in Mathematics. It provides the foundation for studying Physics, Engineering, the Physical, Biological and Health Sciences, Economics, Business, Computer Science, Statistics, and many others.

AS-T TRANSFER MAJOR
Pursuant to SB1440, the following completion requirements must be met:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.
Mathematics

**Program Requirements**

* MATH 140 Calculus with Analytic Geometry, First Course 5
* MATH 141 Calculus with Analytic Geometry, Second Course 4
* MATH 205 Calculus with Analytic Geometry, Third Course 4

List A (Choose 1 course)

MATH 200 Introduction to Linear Algebra 3
MATH 206 Calculus with Differential Equations 4

List B (Choose 1 course not previously taken)

MATH 120 Elementary Statistics 4
MATH 200 Introduction to Linear Algebra 3
MATH 206 Calculus with Differential Equations 4
MATH 245 Discrete Mathematics 3

* PHYS 230 Principles of Physics 5

**TOTAL UNITS** 19 - 22

*Course is required major preparation at CSU San Marcos (CSUSM). Students planning to transfer to CSUSM are advised to select these courses to complete this degree. For more information on this major at CSUSM, please refer to the articulation agreement at ASSIST.ORG.

**Mathematics (AS)**

Provides the background to satisfy upper division course work in mathematics and for entry-level positions that require a knowledge of mathematics such as Technical Assistant and Mathematical Technician. The student is advised to check with the school to which he or she wishes to transfer for additional courses which may be required.

**A.S. DEGREE MAJOR**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 140</td>
<td>5</td>
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<tr>
<td>MATH 141</td>
<td>4</td>
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<tr>
<td>MATH 205</td>
<td>4</td>
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<td>MATH 120</td>
<td>3</td>
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<td>MATH 200</td>
<td>3</td>
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<tr>
<td>MATH 206</td>
<td>4</td>
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<tr>
<td>MATH/TH 47A</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 146</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 112</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 19 - 21

Recommended Electives: PHYS 230, 231, 232; CHEM 110, 115; MATH 245

**COURSE OFFERINGS**

Courses numbered under 50 are non-degree courses. Courses numbered under 100 are not intended for transfer credit.

**MATH 10** Basic Arithmetic (3)

3 hours lecture
Non-degree Applicable
Basic arithmetic computational skills, with an emphasis on the whole numbers, fractions, decimals, and an introduction to the concepts of area and perimeter. Designed for students who are lacking fundamental arithmetic skills.

**MATH 12** Supplemental Instruction for Basic Arithmetic (1)

1 hour lecture
Note: Pass/No Pass grading only
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 10 - Basic Arithmetic. Designed for students who need additional review of basic arithmetic topics.

**MATH 15** Prealgebra (3)

3 hours lecture
Note: May be taught in Spanish
Non-degree Applicable
The basic arithmetic operations, integers, fractions, decimals, percents, ratio and proportion, basic geometric concepts, problem-solving techniques, and an introduction to algebraic thinking.

**MATH 17** Supplemental Instruction for Prealgebra (1)

1 hour lecture
Note: Pass/No Pass grading only
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 15 - Prealgebra. Designed for students who need additional review of prealgebra topics.

**MATH 42A** Supplemental Instruction for Beginning Algebra Part I (1)

1 hour lecture
Note: Pass/No Pass grading only
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 50A - Beginning Algebra. Designed for students who need additional review of beginning algebra topics.

**MATH 42B** Supplemental Instruction for Beginning Algebra Part II (1)

1 hour lecture
Note: Pass/No Pass grading only
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 50B - Beginning Algebra. Designed for students who need additional review of beginning algebra topics.

**MATH 47A** Mathematics Topics (.5 - 4)

(Formerly MATH 47)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Non-degree Applicable
Topics in Mathematics. See class schedule for specific topic covered. Course title will designate subject covered.

**MATH 47B** Mathematics Topics (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Prerequisite: A minimum grade of ‘C’ in MATH 15, or eligibility determined through the math placement process.

Topics in Mathematics. See class schedule for specific topic covered. Course title will designate subject covered.

**MATH 50** Beginning Algebra (4)

4 hours lecture
Prerequisite: A minimum grade of ‘C’ in MATH 15 or eligibility determined through the math placement process

Note: Selected classes may occasionally be taught in Spanish
Elementary algebra which emphasizes mathematical reasoning, problem solving, and real-world applications using numerical, algebraic, and graphic models.

Topics include problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, systems of linear equations in two variables, integer exponents, proportions, and radicals.

See Catalog addendum at http://www.palomar.edu/catalog
MATH 50A  Beginning Algebra Part I  
2 hours lecture  
Prerequisite: A minimum grade of ‘C’ in MATH 15 or eligibility determined through the math placement process  
Note: Not open to students with credit in MATH 50  
First part of Math 50 with emphasis on mathematical reasoning, problem solving, and real-world applications using numerical, algebraic, and graphical models. Topics include problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, and natural number exponents.

MATH 50B  Beginning Algebra Part II  
2 hours lecture  
Prerequisite: A minimum grade of ‘C’ in MATH 50A  
Note: Not open to students with credit in MATH 50  
Second part of Math 50 with continued emphasis on mathematical reasoning, problem solving, and real-world applications, using numerical, algebraic, and graphical models. Topics include problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, systems of linear equations in two variables, integer exponents, proportions, and radicals.

MATH 52A  Explorations in Algebra  
3 hours laboratory  
Prerequisite: MATH 15, or eligibility determined through the math placement process  
Supplemental active learning instruction for students enrolled in an intensive version of beginning and intermediate algebra. Collecting, analyzing and mathematically modeling experimental data using polynomial, exponential, and logarithmic functions. Designed to support and strengthen student understanding of beginning and intermediate algebra concepts.

MATH 53  Prealgebra/Beginning Algebra  
6 hours lecture  
Prerequisite: MATH 15, or eligibility determined through the math placement process  
Elementary algebra with a review of selected topics from prealgebra. Emphasizes mathematical reasoning, problem-solving, and real-world applications using numeric, algebraic, and graphic models. Topics include number sense, percents, ratio and proportion, basic geometric concepts, problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, systems of linear equations in two variables, integer exponents, and radicals.

MATH 54  Algebra for Statistics  
6 hours lecture  
Prerequisite: MATH 15, or eligibility determined through the math placement process  
The core algebra skills needed to understand the concepts, formulas, and graphs used in transfer-level statistics are investigated. Integrates numeracy, proportional reasoning, algebraic reasoning, and functions. Develops conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Throughout the course, college success content will be integrated with mathematical topics. This course is NOT intended for math, science, computer science, business, or engineering majors.

MATH 55  Geometry  
4 hours lecture  
Prerequisite: A minimum grade of ‘C’ in either MATH 50, MATH 50B, or MATH 53 or eligibility determined through the math placement process  
Fundamentals of plane geometry and selected topics from solid geometry developed by both inductive and deductive processes. Especially recommended for prospective teachers and/or students who will be taking Trigonometry.

MATH 56  Beginning/Intermediate Algebra  
6 hours lecture  
Prerequisite: A minimum grade of ‘C’ in either MATH 50, MATH 50B, or MATH 53 or eligibility determined through the math placement process  
Note: Not open to students with credit in MATH 60  
A review of elementary algebra and in-depth coverage of intermediate algebra intended for the student who has previous experience with algebra. Meets requirement for the A.A. degree. Meets prerequisite requirement for mathematics course numbers 100-120.

MATH 60  Intermediate Algebra  
4 hours lecture  
Prerequisite: A minimum grade of ‘C’ in either MATH 50, MATH 50B, or MATH 53 or eligibility determined through the math placement process  
Graphic, numeric, analytic, and applied perspectives on topics including linear, quadratic, exponential, and logarithmic functions, exponents and radicals, linear and nonlinear systems of equations and inequalities.

MATH 75  STEM Prep Math I  
2 hours lecture  
Prerequisite: MATH 50, or MATH 53, or MATH 50B, or eligibility determined through the math placement process  
Corequisite: MATH 110  
STEM Prep Math I provides an introduction to functions for students who plan on taking calculus courses or pursuing science, technology, engineering, or mathematics coursework that requires a thorough knowledge of functions and algebraic reasoning. This course provides just-in-time support for college level math skills and concepts in College Algebra. Focus is on function notation, operations and multiple representations of functions including linear, quadratic, exponential and log functions, as well as contextualized problem solving both individually and in teams. This course is designed to be taken concurrently with College Algebra in the first semester of an accelerated pathway to Calculus.

MATH 76  STEM Prep Math II  
3 hours laboratory  
Corequisite: MATH 115  
STEM Prep Math II provides an introduction to algebraic and geometric reasoning for students who plan on taking calculus courses or pursuing science, technology, engineering, or mathematics coursework that requires a thorough knowledge of functions and algebraic reasoning. This course provides just-in-time support for college level math skills and concepts in Trigonometry. Focus is on function notation, operations and multiple representations of functions, formulas and functions defined geometrically, as well as contextualized problem solving both individually and in teams. This course is designed to be taken concurrently with Trigonometry in the second semester of an accelerated pathway to Calculus.

MATH 97  Mathematics Topics  
(5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

MATH 100  Exploring Mathematics  
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in either MATH 56 or MATH 60 or eligibility determined through the math placement process  
Note: May not be used to clear high school deficiency for students transferring to UC systems Fall 1994 or later  
Transfer acceptability: CSU-UC – MATH 100, 105 and 106 combined: maximum credit, one course  
Selected topics from logic, modern algebra, number theory, and geometry. Designed to give the student an introduction to the structure of mathematics and its applications. Recommended for liberal arts students.
MATH 105  Concepts of Elementary Mathematics I (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 56 or MATH 60 or eligibility determined through the math placement process
Transfer acceptability: CSU; UC – MATH 100, 105 and 106 combined: maximum credit, one course
Selected topics from the real number system including properties and operations with integers and rational numbers as fractions and decimals. Additional topics include problem solving, numeration systems, number theory, and topics in logic and set theory. Recommended for prospective teachers.

MATH 106  Concepts of Elementary Mathematics II (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 105
Transfer acceptability: CSU; UC – MATH 100, 105 and 106 combined: maximum credit, one course
An extension of Mathematics 105, including selected topics from two- and three-dimensional geometry, motion geometry, and measurement. Recommended for prospective elementary and junior high school teachers, parents, and liberal arts students.

MATH 110  College Algebra (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 56 or MATH 60 or eligibility determined through the math placement process
Transfer acceptability: CSU; UC – MATH 110 and 135 combined: maximum credit, one course.
C-ID MATH 151
Study of the behavior and characteristics of functions from graphic, numeric, analytic and applied perspectives, including general polynomial functions, rational functions, exponential and logarithmic functions, and sequences. Systems of equations in several variables with an emphasis in matrix solutions.

MATH 115  Trigonometry (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 56 or MATH 60 or eligibility determined through the math placement process
Transfer acceptability: CSU
The trigonometric functions and their applications including emphasis on the analytical aspects, identities, and trigonometric equations.

MATH 120  Elementary Statistics (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 56 or MATH 60 or eligibility determined through the math placement process
Transfer acceptability: CSU; UC – MATH 120, and PSYC/SOC 205, combined: maximum credit, one course.
The use of probability techniques, hypothesis testing and predictive techniques to facilitate decision-making. Topics include descriptive statistics, probability and sampling distributions, statistical inference, correlation and linear regression, analysis of variance, chi-square and t-tests, and application of technology for statistical analysis, including interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science and education.

MATH 130  Calculus for Business and the Social Sciences (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 110 or eligibility determined through the math placement process
Note: Not open to students with credit in MATH 140
Transfer acceptability: CSU; UC – MATH 130 and 140 combined: maximum credit, one course.
C-ID MATH 140
Functions and their graphs including exponential and logarithmic functions, single variable calculus, limits, differentiation, integration and their applications, multivariable calculus, with application to business, social sciences and behavioral science.

MATH 135  Precalculus Mathematics (5)
5 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 115 or eligibility determined through the math placement process
Transfer acceptability: CSU; UC – MATH 110 and 135 combined: maximum credit, one course.
Designed for students who intend to take calculus. Emphasizes study of the behavior and characteristics of functions from graphic, numerical, analytic, and applied perspectives. Includes trigonometric functions, general polynomial functions, rational functions, exponential functions, logarithmic functions, absolute value functions, functions with rational exponents, and sequences. Selected topics from analytic geometry and linear systems are also presented.

MATH 140  Calculus With Analytic Geometry, First Course (5)
5 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 135, or MATH 110 and MATH 115, or eligibility determined through the math placement process
Transfer acceptability: CSU; UC – MATH 130 and 140 combined: maximum credit, one course.
C-ID MATH 211
An introduction to analytic geometry, differentiation and integration of algebraic and transcendental functions of a single variable, and applications of differentiation.

MATH 141  Calculus With Analytic Geometry, Second Course (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 140
Transfer acceptability: CSU; UC
C-ID MATH 221
Continuation of MATH 140. Topics include definite integrals and their applications; methods of integration (including the use of modern computational technology as appropriate); indeterminate forms; improper integrals; sequences; infinite series; Taylor series; conic sections; polar coordinate; and parametric equations from analytic, graphic, and numeric perspectives.

MATH 146  Fortran-90 for Mathematics and Science (3)
2 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in MATH 135, or MATH 110 and MATH 115, or a passing grade on the appropriate placement test
Note: Cross listed as CSCI 146
Transfer acceptability: CSU; UC
Programming in FORTRAN 90 to solve typical problems in mathematics, computer science, physical sciences, and engineering. Programming is done on a PC.

MATH 197 Mathematics Topics (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required by the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Prerequisite: A minimum grade of 'C' in either MATH 56 or MATH 60, or eligibility determined through the math placement process
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus
Topics in Mathematics. See Class Schedule for specific topic offered. Course title will designate subject covered.

MATH 200  Introduction to Linear Algebra (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 141
Transfer acceptability: CSU; UC
C-ID MATH 250
Matrices, determinants, vectors, linear dependence and independence, basis and change of basis, linear transformations, and eigenvalues.
MATH 205 Calculus With Analytic Geometry, Third Course (4)  
4 hours lecture  
Prerequisite: A minimum grade of 'C' in MATH 141  
Transfer acceptability: CSU; UC  
C-ID MATH 230  
Vectors in the plane and space, three-dimensional coordinate system and graphing, vector-valued functions and differential geometry, partial differentiation, multiple integration, and vector calculus.

MATH 206 Calculus With Differential Equations (4)  
4 hours lecture  
Prerequisite: A minimum grade of 'C' in MATH 205  
Transfer acceptability: CSU; UC  
C-ID MATH 240  
A first course in ordinary differential equations from analytic, geometric, numeric and applied perspectives (including the use of modern computational technology as appropriate). Topics include exact, separable, and linear equations; initial value and boundary-value problems; systems of first-order equations; reduction of order; undetermined coefficients; variation of parameters; series solutions; and Laplace transforms.

MATH 245 Discrete Mathematics (3)  
3 hours lecture  
Prerequisite: A minimum grade of 'C' in MATH 130 or MATH 140  
Transfer acceptability: CSU; UC  
The study of prepositional and predicate logic, number theory and methods of proof, elements of set theory, relations and functions, the Pigeonhole Principle, sequences, infinite sets, basic counting techniques, permutations, combinations, graphs and trees, and applications directed to the field of computer science.

Medical Assisting  
See Business (BUS)  
Medical Assisting Clinical not offered at Palomar College

Multicultural Studies (MCS)  
See also Africana Studies, American Indian Studies, American Studies, Chicano Studies, Judaic Studies  
Contact the Multicultural Studies Department for further information.  
760-744-1150, ext. 2206  
Office: MD-354

COURSE OFFERINGS

MCS 100 Introduction to Multicultural Studies (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
Social, cultural and political awareness of diverse national and international systems of thought and multicultural groups as revealed through their social institutions and cultural traditions emanating from family, community and nation state.

MCS 110 Diverse Cultures in America Today (3)  
3 hours lecture  
Note: Cross listed as AMS 110  
Transfer acceptability: CSU; UC  
An investigation of prevalent cultural trends in four groups of diverse ethnic and cultural backgrounds in America -- African Americans, Latinos, Chinese, and people of Jewish heritage -- since World War II. Emphasis will be placed on the literary, musical, and artistic expressions of their heritage, social conditions, struggle to become part of the main culture, and response to prejudice, racial, and religious discrimination. Selections dealing with social conditions will include such diverse issues as family life, intergenerational conflicts, and religious traditions.

MCS 124 Islamic Cultures and Traditions (3)  
3 hours lecture  
Note: Cross listed as RS 124  
Transfer acceptability: CSU; UC  
An introductory course designed for students with a general interest in the Islamic world, including its history and cultural traditions. Examines the main social, traditional and legal institutions of Islam.

MCS 125 Women, Culture, and Islam (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
This course examines the history of women in Islamic societies from the advent of Islam in the 1st AH/7th CE to present day. Drawing on a variety of primary and secondary sources in written texts and from the Internet, this course explores the role of women in Islam as a religion, cultural experience, and tradition, along with the wide range of women's experiences throughout different periods of history and in diverse Muslim societies.

MCS 157 Theatre and Social Justice (3)  
3 hours lecture  
Note: Cross listed as TA 157  
Transfer acceptability: CSU  
The study and practice of theatre as a vehicle for understanding global conditions of social injustice and working to create justice in local communities.

MCS 160 History of the Middle East from 600 to the Present (3)  
3 hours lecture  
Recommended Preparation: HIST 107  
Note: Cross listed as HIST 160  
Transfer acceptability: CSU; UC  
History of the Middle East from the origins of Islam to contemporary times. Topics include the political, social, and economic development of Islam, the early caliphates, the Crusades, the Ottoman and Safavid empires, European imperialism, and modern Middle Eastern states.

MCS 165 Introduction to Asian American Studies (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
This course is an introduction to Asian American Studies. It focuses on the lives and experiences of Asian Americans in the United States. It surveys the history of immigration and cultural assimilation of the different Asian American groups in the U.S. As such, the course will utilize historical perspectives, literature, and film to examine the Asian American experience and the changing roles and contributions of Asian Americans in American society.

MCS 166 Introduction to Asian American Studies Topics (.5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Topics in Multicultural Studies. See Class Schedule for specific topic offered. Course title will designate subject covered.

MCS 170 Multicultural Studies Topics (3)  
3 hours lecture  
Note: Cross listed as AMS 200/SOC 200  
Transfer acceptability: CSU; UC  
C-ID SOCI 150  
This course is designed to introduce the topics of intergroup relations in general to superordinate-subordinate relations in particular, as exemplified in various racial, ethnic, social class, and cultural groups. Emphasis is primarily on contemporary relations in the United States, although a comparative perspective is also offered.
Music (MUS)
See Noncredit Music (N MUS) for noncredit Music Courses

Contact the Performing Arts Department for further information.
760-744-1150, ext. 2316
Office: PAC-122

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Basic Music Skills (CP)
The primary purpose of this certificate is to provide basic music skills and music fluency. The knowledge gained may be particularly valuable to pre-school or elementary school teachers, music therapists, recreational therapists, multimedia specialists, video game designers, or other creative artists who use music to complement their primary art form.

CERITIFICATE OF PROFICIENCY

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 100</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>MUS 103</td>
<td>Fundamentals of Music</td>
</tr>
<tr>
<td>MUS 115</td>
<td>Basic Keyboard I</td>
</tr>
<tr>
<td>MUS 117</td>
<td>Basic Keyboard II</td>
</tr>
<tr>
<td>MUS 130</td>
<td>Fundamental Vocal Skills</td>
</tr>
<tr>
<td>MUS 175</td>
<td>Beginning Guitar</td>
</tr>
<tr>
<td>MUS 180</td>
<td>Computer Music I</td>
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</tbody>
</table>

Electives (Select a minimum of 4.5 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MUS 101</td>
<td>Survey of 20th Century Music</td>
</tr>
<tr>
<td>MUS 102</td>
<td>Introduction to Jazz</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Vocal Literature and Performance</td>
</tr>
<tr>
<td>MUS 134</td>
<td>Palomar Women's Chorus</td>
</tr>
<tr>
<td>MUS 138/ DNCE 138</td>
<td>Cuban and Brazilian Drumming II</td>
</tr>
<tr>
<td>MUS 143</td>
<td>Palomar Chorale Chamber Ensemble</td>
</tr>
<tr>
<td>MUS 147</td>
<td>Concert Choir</td>
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<tr>
<td>MUS 148</td>
<td>Palomar Chorale</td>
</tr>
<tr>
<td>MUS 149</td>
<td>Spectrum Pop/Jazz Singers</td>
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<tr>
<td>MUS 150</td>
<td>Musical Theatre - Vocal</td>
</tr>
<tr>
<td>MUS 151</td>
<td>Concert Band</td>
</tr>
<tr>
<td>MUS 152</td>
<td>Jazz Ensemble</td>
</tr>
<tr>
<td>MUS 155</td>
<td>Chamber Ensemble - Brass</td>
</tr>
<tr>
<td>MUS 157</td>
<td>Guitar Ensembles</td>
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<tr>
<td>MUS 158</td>
<td>Chamber Singers</td>
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<tr>
<td>MUS 161</td>
<td>Summer Concert Band</td>
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<tr>
<td>MUS 162</td>
<td>Summer Stage Band</td>
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<tr>
<td>MUS 169</td>
<td>History of Rock Music</td>
</tr>
<tr>
<td>MUS 171</td>
<td>World Music</td>
</tr>
<tr>
<td>MUS 172</td>
<td>Repertory Jazz Ensemble</td>
</tr>
<tr>
<td>MUS 176</td>
<td>Intermediate Guitar</td>
</tr>
<tr>
<td>MUS 179</td>
<td>Beginning Flamenco Guitar</td>
</tr>
<tr>
<td>MUS 184</td>
<td>Electronic Ensemble</td>
</tr>
<tr>
<td>MUS 187</td>
<td>Computer Music Composition</td>
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<tr>
<td>MUS 198</td>
<td>Palomar Symphony Orchestra</td>
</tr>
<tr>
<td>MUS 224</td>
<td>Introduction to Jazz Piano</td>
</tr>
</tbody>
</table>

TOTAL UNITS 15.5

Digital Animation, Compositing, and Music (CP)
This program is directed at the digital design and implementation of 3D animations, graphic compositing and music.

CERTIFICATE OF PROFICIENCY

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTI 246</td>
<td>Digital 3D Design and Modeling</td>
</tr>
<tr>
<td>ARTI 247</td>
<td>Digital 3D Design and Animation</td>
</tr>
<tr>
<td>GCMW 204</td>
<td>Motion Graphics for Multimedia</td>
</tr>
<tr>
<td>GCMW 206</td>
<td>Motion Graphics Production and Compositing</td>
</tr>
<tr>
<td>MUS 180</td>
<td>Computer Music I</td>
</tr>
<tr>
<td>MUS 184</td>
<td>Electronic Ensemble</td>
</tr>
</tbody>
</table>

TOTAL UNITS 13 - 15

Digital Animation, Compositing, and Music Certificate of Proficiency is also listed in Art and in Graphic Communications - Multimedia and Web.

Music
The Associate in Art in Music for Transfer prepares students to transfer to California State University campuses that offer bachelor's degrees in Music. The Music AA-T degree prepares students to demonstrate competence and discipline in the study of music in all of its facets as well as read and audiate music. Completers will demonstrate proficiency in ensemble and solo performance skills. While a baccalaureate degree is recommended for a possible career in music production, performance, and music education, completion of this curriculum will demonstrate commitment to the study of Music in practice and in theory and will provide required preparation for upper-division work leading to a Bachelor of Arts Degree in Music at a University.

Pursuant to SB1440, the following completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

   A. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. (Please note: This degree may only be completed using the IGETC GE pattern.)

   B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

AA-T TRANSFER MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUS 105</td>
<td>Music Theory I</td>
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<td>and</td>
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<tr>
<td>MUS 110</td>
<td>Music Skills I</td>
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<tr>
<td>MUS 106</td>
<td>Music Theory II</td>
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<td>and</td>
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<tr>
<td>MUS 111</td>
<td>Music Skills II</td>
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<tr>
<td>MUS 210</td>
<td>Advanced Harmony</td>
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<tr>
<td>and</td>
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<tr>
<td>MUS 215</td>
<td>Music Skills III</td>
</tr>
<tr>
<td>MUS 211</td>
<td>Counterpoint</td>
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<tr>
<td>and</td>
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<tr>
<td>MUS 216</td>
<td>Music Skills IV</td>
</tr>
<tr>
<td>Applied Music (Must take two times for a total of two units)</td>
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</tr>
<tr>
<td>MUS 220</td>
<td>Applied Music</td>
</tr>
</tbody>
</table>
Ensembles (Select 4 units)
MUS 148  Palomar Chorale  1
MUS 149  Spectrum Pop/Jazz Singers  1
MUS 151  Concert Band  1
MUS 152  Jazz Ensemble  1
MUS 155  Chamber Ensemble - Brass  1
MUS 157  Guitar Ensembles  1
MUS 158  Chamber Singers .5 - 1
MUS 172  Repertory Jazz Ensemble  1
MUS 184  Electronic Ensemble  1
MUS 198  Palomar Symphony Orchestra .5 - 1

TOTAL UNITS  22

Music (AA)
The Music Associate in Arts Degree prepares students for transfer to a California State University, University of California, private university or conservatory that offers a Bachelor of Music Degree or Bachelor of Arts Degree in Music.

A.A. DEGREE MAJOR

Program Requirements

Program Requirements Units
MUS 100  Music Appreciation  3
MUS 105  Music Theory I  3
MUS 106  Music Theory II  3
MUS 110  Music Skills I  1
MUS 111  Music Skills II  1
MUS 180  Computer Music I  3
MUS 210  Advanced Harmony  3
MUS 211  Counterpoint  3
MUS 215  Music Skills III  1
MUS 216  Music Skills IV  1

Piano Proficiency (Select a minimum of .5 - 2.5 units)
MUS 115  Basic Keyboard I .5
MUS 116  Accelerated Basic Keyboard  1
MUS 117  Basic Keyboard II .5
MUS 119  Piano Skills I .5
MUS 224  Introduction to Jazz Piano .5
MUS 225  Piano Skills II .5

Performance Course List (See Emphasis for minimum unit requirements)
MUS 90  Fundamental Preparation for Music Majors .5
MUS 101  Survey of 20th Century Music  3
MUS 102  Introduction to Jazz  3
MUS 105  Music Theory I  3
MUS 106  Music Theory II  3
MUS 110  Music Skills I  1
MUS 111  Music Skills II  1
MUS 180  Computer Music I  3
MUS 184  Electronic Ensemble  1
MUS 187  Computer Music Composition  1
MUS 220  Applied Music  1
MUS 222  Performance Studies  5
MUS 223  Premier Chamber Ensembles  1
MUS 227  Accompanying Ensemble  1
MUS 250  Choral Conducting  1
MUS 251  Master Class in Keyboard Literature, Analysis and Performance  .5 - 3

Emphasis in Performance (Students must complete four semesters of MUS 220 and 222, plus a minimum of 4 units from the Performance Course List.)
MUS 220  Applied Music  1
MUS 222  Performance Studies  5

Emphasis in Composition and Theory (Students must take MUS 184 for three semesters, and MUS 220 and 222 for two semesters, plus a minimum of 2 units from the Performance Course List.)
MUS 181  Computer Music II  3
MUS 184  Electronic Ensemble  1
MUS 187  Computer Music Composition  1
MUS 220  Applied Music  1
MUS 222  Performance Studies  5

Emphasis in General Music (Select 6 units, plus a minimum of 4 units from the Performance Course List.)
MUS 101  Survey of 20th Century Music  3
MUS 102  Introduction to Jazz  3
MUS/ENTT/ TA 112  Basic Sound Reinforcement  3
MUS/ENTT/ TA 114  Advanced Sound Reinforcement  1.5 - 2
MUS 130  Fundamental Vocal Skills  5
MUS 131  Vocal Literature and Performance  5
MUS 169  History of Rock Music  3
MUS 171  World Music  3
MUS 175  Beginning Guitar  5
MUS 176  Intermediate Guitar  5
MUS 181  Computer Music II  3
MUS 184  Electronic Ensemble  1
MUS 187  Computer Music Composition  1

TOTAL UNITS  32.5 – 35

Recommended Elective: DNCE/MUS/TA 173

COURSE OFFERINGS

State Regulations (Title 5, Sections 55040-55041) limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Music have limitations on the number of times a student may enroll. Some Music courses may be repeated provided student has not reached the limitation for the applicable group of Music courses. Specific information about enrollment limitations for Music classes is available at http://www.palomar.edu/schedule/restrictions.htm

Courses numbered under 100 are not intended for transfer credit.

MUS 90  Fundamental Preparation for Music Majors  (2)
1½ hours lecture - 1½ hours laboratory
Designed as the entry-level music fundamentals class for music majors, including basic music terminology, rhythm and pitch notation, clefs, scales, intervals and triads. Keyboard and aural skills will also be introduced, along with a concise outline of the major style periods of music history. The ability to read music is strongly recommended and desirable. Provides essential background for advanced courses in music theory.

MUS 97D  Music Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule. Topics in Music. See Class Schedule for specific topic offered. Course title will designate subject covered.
MUS 100  Music Appreciation  (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID MUS 100
A survey course that develops musical listening skills through lectures, discussion, in-class listening to recorded music, and live concert attendance. Stylistic and structural elements, cultural roles of music and musicians, and contributions of technology in Western music are examined through representational works from the earliest notated music to the present.

MUS 101  Survey of 20th Century Music  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Music from the mid 19th Century to the recent avant garde, with emphasis on understanding the issues and philosophies of modern musical thought.

MUS 102  Introduction to Jazz  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Surveys the historical and musical development of jazz as a unique African American expression from the beginning of slavery in the U.S. to the current global multicultural expression of jazz in the twenty-first century. Emphasis is placed on how racial, socio-economic, and gender relationships between whites, African Americans and Latinos were reflected in and influenced by jazz musicians, and the evolving technological contexts in which jazz has developed. Students become active listeners, and develop culturally relevant aesthetic criteria in contextualizing jazz performances.

MUS 103  Fundamentals of Music  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Training in the fundamentals of music, primarily for the non music major. The course of study includes a thorough acquaintance with scales, intervals, keys and triads, as well as development in ability to sight read simple melodic material and take simple melodic dictation.

MUS 105  Music Theory I  (3)
3 hours lecture - 1 hour laboratory
Prerequisite: MUS 103 or Demonstrated ability to read music acquired through prior study (i.e. private lessons or AP Music Theory)
Transfer acceptability: CSU; UC
C-ID MUS 120
Through guided composition and analysis, this course incorporates the following concepts: rhythm and meter, basic properties of sound, intervals, diatonic scales and triads, diatonic chords, basic cadential formulas and phrase structures, figured bass symbols, dominant seventh chords, non-harmonic tones, and voice leading in 4-part chorale writing. Development of skills in handwritten notation is expected. Includes review of music rudiments. Keyboard component including scales, triads, inversions and chord progressions.

MUS 106  Music Theory II  (3)
3 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in MUS 105
Corequisite: MUS 111
Transfer acceptability: CSU; UC
C-ID MUS 130
Continuation of MUS 105, extending analysis and written work into all aspects of diatonic harmony, secondary dominants, and elementary modulation. Music literacy is developed through listening and score reading assignments. Required concert attendance.

MUS 110  Music Skills I  (1)
1 hour lecture - 1 hour laboratory
Corequisite: MUS 105
Recommended Preparation: Demonstrated ability to read music acquired through prior study (i.e. private lessons or AP Music Theory)
Transfer acceptability: CSU; UC
C-ID MUS 125
Melodic and rhythmic sight reading and dictation. Required concert attendance. Required for students with a major in music.

MUS 111  Music Skills II  (1)
1 hour lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in MUS 110
Transfer acceptability: CSU; UC
C-ID MUS 135
Continuation of MUS 110 and harmonic dictation. Required concert attendance. Required for students with a major in music.

MUS 112  Basic Sound Reinforcement  (3)
2 hours lecture - 3 hours laboratory
Note: Cross listed as ENTT/TA 112
Transfer acceptability: CSU
An introduction to basic sound equipment and reinforcement principles. To understand basic set up, operation, and troubleshooting of live Public Address systems in a concert or theatrical setting.

MUS 114  Advanced Sound Reinforcement  (1.5 - 2)
4½ - 6 hours laboratory
Prerequisite: A minimum grade of 'C' in TA/ENTT/MUS 112
Note: Cross listed as ENTT 114
Transfer acceptability: CSU
Advanced principles of electronic sound, acoustics, equalization and effects processing, recording of live sound in a concert or theatrical setting, equipment management and design techniques.

MUS 115  Basic Keyboard I  (.5)
2 hours laboratory
Transfer acceptability: CSU; UC
An introduction to the keyboard through the study of notation, basic hand positions, and chord formations.

MUS 116  Accelerated Basic Keyboard  (1)
3 hours laboratory
Prerequisite: Ability to read music in treble and bass clefs
Transfer acceptability: CSU; UC
Accelerated class for the beginning keyboard student. Required of all students with a major in music and for music credential candidates.

MUS 117  Basic Keyboard II  (.5)
2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MUS 115 or the passing of equivalency test
Transfer acceptability: CSU; UC
Keyboard experience through the further study of notation, scales, and chord progressions. Sight reading and improvisation.

MUS 119  Piano Skills I  (.5)
2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MUS 117 or the passing of equivalency test
Transfer acceptability: CSU; UC
Piano techniques including scales and arpeggios, sight reading, and ensemble playing. Required of all music majors and for credential candidates.

MUS 130  Fundamental Vocal Skills  (.5)
2 hours laboratory
Transfer acceptability: CSU; UC
Introduction to the basics of singing. Includes proper breath control and posture, practice techniques, diction, and performance of simple song literature.

MUS 131  Vocal Literature and Performance  (.5)
2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MUS 130
Transfer acceptability: CSU; UC
Establishment of a basic repertoire for the singer. Rehearsal and performance of folk songs; musical theatre; and Italian, German, French, and English art songs.

See Catalog addendum at http://www.palomar.edu/catalog
MUS 137  Cuban and Brazilian Drumming I  (.5 - 1)  
1½, 2, or 3 hours laboratory  
Transfer acceptability: CSU; UC  
Note: Cross listed as DNCE 137  
Rehearsal and performance of standard or rhythm and drum literature.  
Drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, popular and folkloric; Rumba, Congo (Makuta/Palo), Franco/Haitian (Gaga/Congo Layet) from East and West Cuba. Develop ability to work as a drum ensemble.  
MUS 138  Cuban and Brazilian Drumming II  (.5 - 1)  
1½, 2, or 3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition  
Transfer acceptability: CSU; UC  
Intermediate level drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, Rumba, Congo, Makuta from Cuba. Develop ability to work as part of a drum ensemble.  
MUS 148  Palomar Chorale  (1)  
3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Rehearsal and performance of standard oratorio and choral literature. Attendance at all scheduled performances is required.  
MUS 149  Spectrum Pop/Jazz Singers  (1)  
3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
A group of singers specializing in the performance of jazz, gospel, rock, musical theatre, and popular music. Improvement of musicianship and concept of style. The ensemble gives campus and community concerts. Attendance at all scheduled performances is required.  
MUS 150  Musical Theatre – Vocal  (.5,1)  
1½ or 3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Rehearsal and performance of vocal musical theatre literature. Attendance at all scheduled rehearsals and productions is required.  
MUS 151  Concert Band  (1)  
3 hours laboratory  
Limitation on Enrollment: Enrollment subject to audition  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Study, rehearsal, and performance of standard concert band music.  
MUS 152  Jazz Ensemble  (1)  
3 hours laboratory  
Limitation on enrollment: Ability to perform on one or more instruments and read music. Enrollment subject to audition  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Rehearsal and performance of standard stage band literature. Opportunities for students to arrange and compose for the band and rehearse the ensemble. Attendance at all scheduled performances is required.  
MUS 155  Chamber Ensemble – Brass  (1)  
3 hours laboratory  
Limitation on Enrollment: Enrollment subject to audition  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Rehearsal and performance of chamber music literature for brass.  
MUS 157  Guitar Ensembles  (1)  
3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition with emphasis on music reading  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Performance practice considerations for ensemble music from various periods of music history, with an emphasis on music reading and classical technique.  
MUS 158  Chamber Singers  (.5,1)  
1½ or 3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition with emphasis on vocal ability and music reading  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Rehearsal and performance of chamber music for voices.  
MUS 159  Musical Theatre Orchestra  (.5,1)  
1½ or 3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition; ability to play an instrument and read music at sight  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Rehearsal and performance of musical theatre literature. Attendance at all scheduled productions is required.  
MUS 161  Summer Concert Band  (5)  
1½ hours laboratory  
Prerequisite: Ability to perform on one or more instruments  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Study, rehearsal, and performance of standard concert band music.  
MUS 169  History of Rock Music  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
Overview of rock and popular musical styles from the early 1950s to the present. Coverage includes related social and cultural trends, outstanding artists, the influence of technology on popular music, and relevant trends in the music industry. Basic musical concepts such as pitch, rhythm and form will be introduced and applied to the music under consideration.  
MUS 171  World Music  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID MUS 180  
A survey of world music including North American Indian, Mexico, India, Japan, Indonesia, Middle East, China, Africa, and South America, with emphasis on understanding the cultural background, instruments, musical characteristics and the impact of world music on the 20th century culture.  
MUS 172  Repertory Jazz Ensemble  (1)  
3 hours laboratory  
Limitation on enrollment: Enrollment subject to audition  
Transfer acceptability: CSU  
C-ID MUS 180  
Study and preparation of professional level materials for the large jazz ensemble.  
MUS 173  Musical Theatre Scenes I  (1)  
3 hours laboratory  
Note: Cross listed as DNCE 173/TA 173  
Transfer acceptability: CSU  
C-ID MUS 180  
Rehearsal and performance of solo and group scenes from Broadway musicals dating from the 1930’s to the present.  
MUS 174  Musical Theatre Scenes II  (3)  
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in DNCE/MUS/TA 173  
Note: Cross listed as DNCE 174/TA 174  
Transfer acceptability: CSU  
C-ID MUS 180  
A continuation of Musical Theatre Scenes I. A deeper exploration into the acting, singing, and dancing necessary for Broadway Musicals from the 1930’s to present.
MUS 175  Beginning Guitar  (.5)
2 hours laboratory
Transfer acceptability: CSU; UC
An introduction to the fingerboard through the study of notation, basic hand positions, and chord formations.

MUS 176  Intermediate Guitar  (.5)
2 hours laboratory
Prerequisite: A minimum grade of 'C' in MUS 175
Transfer acceptability: CSU; UC
A continuation of MUS 175 with a more in-depth study of the classical, flamenco, blues, and jazz styles. Theory, technique, and interpretation will be thoroughly explored.

MUS 178  Classical Guitar  (1)
3 hours laboratory
Recommended Preparation: A minimum grade of 'C' in MUS 175 or approval of instructor
Transfer acceptability: CSU; UC
Guitar techniques in the classical style, with emphasis on sight reading and ensemble playing as well as performance of guitar literature from the Renaissance through the early 20th Century.

MUS 179  Beginning Flamenco Guitar  (.5)
2 hours laboratory
Prerequisite: Basic knowledge of guitar performance technique
Transfer acceptability: CSU; UC
Basic knowledge of flamenco guitar that focuses on terminology, harmony, rhythm, and additional techniques.

MUS 180  Computer Music I  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in MUS 103 or 115 or ARTI 246 or GCMW 204
Transfer acceptability: CSU
This course is designed to give students an understanding of basic computer music application including sound design, MIDI, and music notation software.

MUS 181  Computer Music II  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in MUS 180, or concurrent enrollment in MUS 180
Transfer acceptability: CSU
An overview of digital audio techniques. Topic in sound synthesis, sound design, and sampling.

MUS 182  Introduction to Arts Management  (3)
9 hours laboratory
Note: Cross listed as AMS 182, ART 182, DNCE 182, TA 182
Transfer acceptability: CSU
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

MUS 183  Internship in Arts Management  (3)
9 hours laboratory
Prerequisite: A minimum grade of 'C' in AMS/ART/DNCE/TA 182
Note: Cross listed as AMS 183/ART 183/DNCE 183/TA 183
Transfer acceptability: CSU
Practical experience in arts management in the visual and performing arts.

MUS 184  Electronic Ensemble  (1)
3 hours laboratory
Prerequisite: A minimum grade of 'C' in MUS 103
Transfer acceptability: CSU; UC
C-ID MUS 180
Instruction in music technology, composition, and performance. Students will compose and participate in performances of original works for electronic, computer, and acoustic instruments. Assignments and performances will be both individual and collaborative. Group, or ensemble, compositions and performances are part of this course.

MUS 187  Computer Music Composition  (1)
3 hours laboratory
Prerequisite: A minimum grade of 'C' in MUS 103 or MUS 115, and MUS 180 and MUS 181
Transfer acceptability: CSU
Focus is on individual music compositions. Instruction will include, but is not limited to, computer music software and hardware overviews. Includes composition and notation techniques, music analysis, detailed work on specific software applications, music publishing information, and rehearsal and parts preparation. Students may also take this in conjunction with computer music classes in order to receive further tutelage with that class material.

MUS 197  Topics in Music  (.5-3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Workshops in various special topics in music.

MUS 198  Palomar Symphony Orchestra  (5,1)
1½ or 3 hours laboratory
Limitation on enrollment: Enrollment subject to audition
Transfer acceptability: CSU; UC
C-ID MUS 180
Study, rehearsal, and performance of a wide variety of orchestral literature from the Baroque, Classical, Romantic, and 20th Century styles. Attendance at all scheduled performances is required.

MUS 210  Advanced Harmony  (3)
3 hours lecture 1 hour laboratory
Prerequisite: A minimum grade of 'C' in MUS 106
Corequisite: MUS 215
Transfer acceptability: CSU; UC
C-ID MUS 140
Analysis and written work in altered chords, chromatic harmony, modulation, structural form (sonata allegro), and 20th Century developments. Required concert attendance.

MUS 211  Counterpoint  (3)
3 hours lecture 1 hour laboratory
Prerequisite: A minimum grade of 'C' in MUS 210
Corequisite: MUS 216
Transfer acceptability: CSU; UC
C-ID MUS 150
Analysis and written work in two and three voice counterpoint in the 18th Century style (invention and fugue). Required concert attendance.

MUS 215  Music Skills III  (1)
1 hour lecture 1 hour laboratory
Prerequisite: A minimum grade of 'C' in MUS 111
Transfer acceptability: CSU; UC
C-ID MUS 145
Continuation of MUS 111 and four part harmonic dictation. Introduction to chromatic dictation. Required for students with a major in music.

MUS 216  Music Skills IV  (1)
1 hour lecture 1 hour laboratory
Prerequisite: A minimum grade of 'C' in MUS 215
Transfer acceptability: CSU; UC
C-ID MUS 280
Continuation of MUS 215 and contrapuntal dictation. Required for students with a major in music, but open to all students.
MUS 220  Applied Music  (1)

1 hour lecture
Corequisite: MUS 222 and at least one music ensemble (MUS 134, 147, 148, 149, 150, 151, 152, 155, 157, 158, 159, 172, 184, 198)
Limitation on Enrollment: Enrollment subject to audition
Transfer acceptability: CSU; UC
C-ID MUS 160
Individual lessons with music instructor developing basic techniques in applied music. Student is required to practice on campus, be concurrently enrolled in a music ensemble, participate in Performance Studies class, and perform for music juries at the conclusion of the semester.

MUS 222  Performance Studies  (.5)

2 hours laboratory
Corequisite: MUS 220
Transfer acceptability: CSU; UC
A combination of private studio instruction in instrument or voice with an off-campus instructor, plus on campus training in performance skills.

Required conditions:

1. Fourteen clock hours of instruction with a private instructor and adequate practice time are required.
2. At the end of the semester the student will be required to perform for the Music Faculty.
3. Student should have necessary skills and technique on chosen instrument to begin training in public performance.

- a. Piano
- b. Harpsichord
- c. Organ
- d. Voice
- e. Flute
- f. Oboe
- g. Clarinet
- h. Saxophone
- i. Bassoon
- j. French Horn
- k. Trumpet
- l. Trombone
- m. Baritone Horn
- n. Tuba
- o. Percussion
- p. Violin
- q. Viola
- r. Cello
- s. Contrabass
- t. Harp
- u. Classical Guitar
- v. Classical Accordion
- w. Studio Guitar

MUS 223  Premier Chamber Ensembles  (1)

3 hours laboratory
Limitation on enrollment: Enrollment subject to audition
Transfer acceptability: CSU; UC
Chamber music ensembles for advanced performers. Enrollment subject to audition.

MUS 224  Introduction to Jazz Piano  (.5)

2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MUS 117 or the passing of equivalency test
Transfer acceptability: CSU; UC
Provides students with a practical knowledge and proficiency in concepts pertaining to jazz piano, including reading chord symbols, chord voicings, stylistically appropriate accompaniment, and improvising in a jazz and/or pop music idiom.

MUS 225  Piano Skills II  (.5)

2 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MUS 119 or the passing of equivalency test
Transfer acceptability: CSU; UC
Continuation of piano techniques with emphasis on improvised accompaniments, sight reading, ensemble playing, pedaling, and practice techniques.

MUS 250  Choral Conducting  (1)

1 hour lecture
Prerequisite: A minimum grade of ‘C’ in MUS 105 or experience in conducting choirs
Transfer acceptability: CSU
Practical conducting methods for choral musicians. Discussion and study of issues concerning musical rehearsal and performance with treble, SAB and SATB choral ensembles.

MUS 251  Master Class in Keyboard Literature, Analysis and Performance  (.5, 1, 1.5, 2, 3)

½, 1, 1½, 2, or 3 hours lecture
Prerequisite: A minimum grade of ‘C’ in MUS 225 or the passing of equivalency test
Transfer acceptability: CSU
Survey of keyboard literature presented in a master class format. Analysis of styles and techniques of solo and ensemble performances.

MUS 280  Music Composition Workshop I  (1)

3 hours laboratory
Prerequisite: MUS 280
Transfer acceptability: CSU
Focus on contemporary techniques in music composition, music notation and contemporary literature. Short compositions in workshop setting for beginning composers.

MUS 281  Music Composition Workshop II  (1)

3 hours laboratory
Prerequisite: MUS 280
Transfer acceptability: CSU
Focus on contemporary techniques in music composition, music notation and contemporary literature. Students create compositions in a workshop setting. This course is for intermediate level composers.

MUS 297  Experimental Topics in Music  (.5 - 3)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any number of laboratory hours may be scheduled by the department. Refer to Class Schedule.
Prerequisite: Enrollment subject to project approval.
Transfer acceptability: CSU; UC - credit determined by UC upon review of course syllabus.
Advanced music projects including individual research, tutoring and performance for college classes and community projects.

Networking
See CSIT - Networking

Nursing Education (NURS)

Contact the Nursing Education Department for additional information.
760-774-1150, ext. 2279
Office: HS-200
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
For transfer information, consult a Palomar College Counselor.

The Associate Degree Nursing program is approved by the California Board of Registered Nursing and is accredited by the Accreditation Commission for Education in Nursing (ACEN), Peachtree Rd. NE, Suite 850, Atlanta, GA 30326, 1-404-975-5000.

GENERAL INFORMATION
The Associate Degree Nursing program prepares graduates to provide direct nursing care to patients in hospitals and other health agencies at a staff nurse level. The curriculum consists of coursework in nursing, general education, and clinical nursing practice in local hospitals and other health agencies. The Nursing faculty of the College is directly responsible for all phases of the program.
Palomar College has two Associate Degree options available in Nursing. The difference in the coursework between the two options is in the GE requirements, which are described in more detail in the programs of study on the following pages. The Associate in Arts (AA) in Nursing Degree meets the requirements of Title V and the Board of Registered Nursing (BRN). The Associate in Science (AS) in Nursing Degree meets the requirements of Title V, Board of Registered Nursing (BRN), and the Accreditation Commission for Education in Nursing (ACEN).

Admission to the nursing program is by special application. To be eligible for consideration, applicants must (1) be eligible for admission to Palomar College; (2) attend a Nursing Orientation meeting; (3) submit proof of high school graduation or equivalency or higher; (4) have a GPA of 2.5 in prerequisite sciences; (5) pass the Test of Essential Academic Skills (TEAS) version V, with a composite score of at least 62%; and (6) submit a completed application along with the required documentation.

**Licensure:** Upon successful completion of either the Associate in Arts (AA) in Nursing Degree or the Associate in Science (AS) in Nursing Degree, students will be eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX RN). If performance on the examination is successful, they will be licensed as a registered nurse.

Students who are LVNs and who are electing the Non-Degree 30 Unit Option, as well as students who do not complete the requirements for the Associate in Arts (AA) or the Associate in Science (AS) in Nursing but who successfully complete the required nursing and support courses, are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX RN) as a NON-DEGREE Candidate. If successful, they will be licensed as a RN by the California Board of Registered Nursing. Endorsement of a non-degree graduate RN in other states is not guaranteed because these regulations are unique to California. ONCE THE LICENSING EXAM IS TAKEN, STATUS CANNOT BE CHANGED FROM NON-DEGREE TO DEGREE REGARDLESS OF SUBSEQUENT DEGREES EARNED.

**Credit by Transfer:** Students who have been enrolled in an accredited Registered Nursing program within the last two years may receive full credit for courses transferred which are, as evaluated by the Palomar College Nursing Education Department faculty, comparable to courses offered by the College. If courses transferred are found not to be comparable, students may challenge Palomar courses for credit.

**Credit by Examination:** Academic credit by examination may be obtained by those whose prior education and/or experience provides the knowledge and skills required to meet the objectives of one or more courses. Students who believe they may be eligible for credit by examination should contact the Nursing Education Department for an appointment for special advising prior to submitting their application for admission to the program. For College policy regarding credit by examination, consult "Credit by Examination" in the Academic Regulations and Standards section of this catalog.

Upon completion of the eligibility requirements, separate theory and clinical performance examinations will be administered for courses with a laboratory component. A written patient care plan is required in all appropriate theory and clinical courses. Completion of the written work with a grade of 'C' or better is required prior to taking the clinical examination. Courses without a lab component will have a performance examination. A grade of 'C' or better must be achieved. The Nursing Education Department's Credit by Examination Policy may be obtained from the Nursing Education Department Office. A maximum of 20 units may be obtained through credit by examination.

**Students with a Previous Bachelor's Degree:** As per the Education Code, SB 1393, students with baccalaureate or higher degrees from a regionally accredited college in a non-nursing field are only required to complete the course work necessary for completion of the registered nursing program, including prerequisites and nursing coursework. These students are not required to complete any other courses required by the college for an associate degree.
**AA in Nursing for LVNs**

Advanced standing for LVNs is based on the following requirements:
- Hold a valid, active LVN license in the state of California.
- Graduate from an accredited LVN/LPN program.
- Meet all requirements for admission as identified in the College Catalog.
- Successfully complete NURS 110.

Upon successful completion of NURS 110, the student has two academic years to enroll in the nursing program. If the student is unable to enroll within two academic years, for any reason other than lack of space in the program, the student will be required to repeat NURS 110.

**Requirements for an AA in Nursing for LVNs**

- **MATH** Any course numbered 56 and above, except math topics, or an appropriate score on an approved math exam 0-4
- NURS 110 LVN-RN Transition 2
- BIOL 212 Fundamentals of Microbiology 4
- BIOL 210 Anatomy 4
- BIOL 211 Physiology 4

**Semester I**
- NURS 217 Nursing III 9
- NURS 203 Nursing Foundation II 1

**Semester II**
- NURS 218 Nursing IV 9

**Additional Related Support Courses**
- ENG 100* English Composition 4
- HUM Any approved GE Area C course 3
- PSYC 100, 105, 110, 115, 120, or 125 3
- SOC 100, 105, 110, 125, or 130 3
- SPCH 100, 105, or 115 3

One approved pair of American History & Institutions courses or an appropriate score on an approved American History & Institutions exam 0-6

The Multicultural Course requirement is met by completion of NURS 103 and NURS 217, or NURS 110 and NURS 217. 0

The following additional requirements for an Associate in Arts Degree in Nursing are met by completion of the Nursing Curriculum:
- Health and Fitness requirement 0
- Lifelong Learning and Self-Development requirement 0

**TOTAL UNITS** 49-59

*Three semester unit courses accepted from accredited colleges.

Curriculum plan subject to change.

To get credit for any course applicable to an Associate in Arts Degree in Nursing, students must receive a grade of ‘C’ or better.

When the LVN student has successfully completed the AA in Nursing program, the student will be given credit for previous vocational nursing education equivalent to 18 units.

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**Associate in Science (AS) in Nursing**

**Requirements for an AS in Nursing**

- **MATH** Any course numbered 56 and above, except math topics, or an appropriate score on an approved math exam 0-4
- BIOL 212 Fundamentals of Microbiology 4
- BIOL 210 Anatomy 4
- BIOL 211 Physiology 4

**Semester I**
- NURS 117 Nursing I 9
- NURS 103 Nursing Foundation I 2

**Semester II**
- NURS 118 Nursing II 9
- NURS 203 Nursing Foundation II 1

**Semester III**
- NURS 217 Nursing III 9

**Semester IV**
- NURS 218 Nursing IV 9

**Additional Related Support Courses**
- ENG 100* English Composition 4
- HUM Any approved GE Area C course 3
- PSYC 100, 105, 110, 115, 120, or 125 3
- SOC 100, 105, 110, 125, 130, 135, or 145 3
- SPCH 100, 105, or 115 3

The Multicultural Course requirement is met by completion of NURS 103 and NURS 217, or NURS 110 and NURS 217. 0

The following additional requirements for an Associate in Science Degree in Nursing are met by completion of the Nursing Curriculum:
- Health and Fitness requirement 0
- Lifelong Learning and Self-Development requirement 0

**TOTAL UNITS** 67-71

*Three semester unit courses accepted from accredited colleges.

Curriculum plan subject to change.

To get credit for any course applicable to an Associate in Science Degree in Nursing, students must receive a grade of ‘C’ or better.
**AS in Nursing for LVNs**

Advanced standing for LVNs is based on the following requirements:

- Hold a valid, active LVN license in the state of California.
- Graduate from an accredited LVN/LPN program.
- Meet all requirements for admission as identified in the College Catalog.
- Successfully complete NURS 110.

Upon successful completion of NURS 110, the student has two academic years to enroll in the nursing program. If the student is unable to enroll within two academic years, for any reason other than lack of space in the program, the student will be required to repeat NURS 110.

**Requirements for an AS in Nursing for LVNs**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>MATH Any course numbered 56 and above,</td>
<td>0-4</td>
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<tr>
<td>except math topics, or an appropriate</td>
<td></td>
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<tr>
<td>score on an approved math exam</td>
<td></td>
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<tr>
<td>NURS 110 LVN-RN Transition</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 212 Fundamentals of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 210 Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 211 Physiology</td>
<td>4</td>
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</tbody>
</table>

**Semester I**

- NURS 217 Nursing III: 9 units
- NURS 203 Nursing Foundation II: 1 unit

**Semester II**

- NURS 218 Nursing IV: 9 units

**Additional Related Support Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENG 100* English Composition</td>
<td>4</td>
</tr>
<tr>
<td>HUM Any approved GE Area C course</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 100, 105, 110, 115, 120, 125, or 130</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100, 105, 110, 125, 130, 135, or 145</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 100, 105 or 115</td>
<td>3</td>
</tr>
</tbody>
</table>

The Multicultural Course requirement is met by completion of NURS 103 and NURS 217, or NURS 110 and NURS 217.

The following additional requirements for an Associate in Arts Degree in Nursing are met by completion of the Nursing Curriculum:

- Health and Fitness requirement: 0 units
- Lifelong Learning and Self-Development requirement: 0 units

**TOTAL UNITS**: 49-53

*Three semester unit courses accepted from accredited colleges.

Curriculum plan subject to change.

To get credit for any course applicable to an Associate in Science Degree in Nursing, students must receive a grade of ‘C’ or better.

When the LVN student has successfully completed the AS in Nursing program, the student will be given credit for previous vocational nursing education equivalent to 18 units.

**Non-Degree 30 Unit Option for LVNs**

Students who are LVNs and who are electing the Non-Degree 30 Unit Option are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX RN) as a NON-DEGREE candidate. If successful, they will be licensed as an RN by the California Board of Registered Nursing. Endorsement of a Non-Degree graduate RN in other states is not guaranteed because these regulations are unique to California. ONCE THE LICENSING EXAM IS TAKEN, STATUS CANNOT BE CHANGED FROM NON-DEGREE TO DEGREE REGARDLESS OF SUBSEQUENT DEGREES EARNED.

Upon successful completion of NURS 110, the student has two academic years to enroll in the nursing program. If the student is unable to enroll within two academic years, for any reason other than lack of space in the program, the student will be required to repeat NURS 110.

A maximum of 30 units of nursing and support courses are required to fulfill the unit requirement for licensure by the Board of Registered Nursing.

**Requirements for the Non-Degree 30 Unit Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 211 Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 212 Fundamentals of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 110 LVN RN Transition</td>
<td>2</td>
</tr>
</tbody>
</table>

**Semester I**

- NURS 217 Nursing III: 9 units
- NURS 203 Nursing Foundations II: 1 unit

**Semester II**

- NURS 218 Nursing IV: 9 units

**TOTAL UNITS**: 29

A 30 Unit Option student, with additional units in general education, may earn the Associate in Arts Degree in General Studies. Neither an Associate in Arts (AA) nor an Associate of Science (AS) in Nursing will be awarded.

**AA or AS Degree in Nursing for Diploma RNs**

Upon successful completion of the following requirements, a Diploma RN can be awarded an Associate Degree (AA or AS) in Nursing from Palomar College.

- The student must present a valid active California RN license to be verified by the Nursing Education Department.
- A copy of the RN license must be submitted to the College's Records office for inclusion in the student's academic file.
- The student must submit an official transcript of the Diploma Nursing school coursework to the Nursing Education Department at Palomar College. The transcript will also be evaluated by the Palomar College Evaluation Department for GE course approvals.
- 38 of the 39 units required for the Nursing major at Palomar College may be awarded from the Diploma Nursing school.
- One unit in Nursing at Palomar College must be earned by completion of NURS 203, Nursing Foundation II.
- A Diploma Nurse must also meet all Associate Degree (AA or AS) General Education and/or District requirements including a minimum of 12 units which must be completed in residency at Palomar College.

**COURSE OFFERINGS**

To remain in the program, students must maintain a minimum grade of 'C' in each of the nursing courses and in all required support courses. Grades in the clinical nursing laboratories are based on satisfactory/unsatisfactory practice. A student might fail a nursing course on the basis of clinical practice even though theory grades may be passing.

**NURS 103 Nursing Foundation I**

2 hours lecture

**Prerequisite**: Admission to the Associate Degree Nursing Program

**Corequisite**: NURS 117

**Note**: Graded only

**Transfer acceptability**: CSU

An introduction to concepts essential to nursing practice. Topics include, but are not limited to, nursing process, critical thinking, therapeutic communication, and health assessment using a functional health patterns framework. Multicultural considerations including gender, ethnicity, sexuality, and age are explored.
NURS 110  LYN-RN Transition  
1 hour lecture - 3 hours laboratory
Prerequisite: A copy of a current, active California LVN license in good standing must be on file in the Nursing Education Office prior to registering in this class.
Recommended preparation: MATH 56 or 60
Note: Graded only
Transfer acceptability: CSU
This course facilitates the transition of the Licensed Vocational Nurse into the Associate Degree Nursing Program. Topics include, but are not limited to, nursing process, critical thinking, health assessment utilizing evidence based interventions, and role differentiation. Multicultural considerations including ethnicity, gender, age, and sexuality are explored. Concepts essential for registered nursing practice and functional health patterns are examined.

NURS 117  Nursing I  
4 hours lecture - 15 hours laboratory
Prerequisite: Admission to the Associate Degree Nursing Program
Corequisite: NURS 103
Note: Graded only
Transfer acceptability: CSU
This course builds on the foundation of Nursing 103 and 110. Critical thinking is utilized as a method to explore historical, political, educational, legal, ethical, and bioethical issues that impact nursing practice. Nursing organizations are researched via the internet with an emphasis on evaluation of nursing websites. Managerial concepts are introduced with a focus on decision making skills, managing resources, organizing time, delegating, and supervising care.

NURS 118  Nursing II  
4 hours lecture - 15 hours laboratory
Prerequisite: A minimum grade of ‘C’ in NURS 103 and 117
Corequisite: NURS 203
Note: Graded only
Transfer acceptability: CSU
Builds on Nursing 117 with the application of the nursing process and critical thinking in the care of childbearing families, pediatric, and medical-surgical clients. Theoretical content related to growth and development, child abuse, and human sexuality is included. Concepts are expanded to include the recognition of changes in clients with predictable outcomes. Emphasis is placed on client teaching and the integration of family members in the plan of care. Managerial concepts of delegation, collaboration, time management, and appropriate utilization of resources are developed.

NURS 120  Pharmacology For Nurses I  
2 hours lecture
Transfer acceptability: CSU
Basic concepts of pharmacology, pharmacokinetics, pharmacodynamics, drug interactions and the nursing process related to neurologic and neuromuscular agents; analgesics and anti-inflammatory agents; eye, ear, and skin agents; respiratory agents; endocrine agents; gastrointestinal agents; and reproductive and gender-related agents.

NURS 121  Pharmacology for Nurses II  
2 hours lecture
Transfer acceptability: CSU
Basic concepts of pharmacology, pharmacokinetics, pharmacodynamics, drug interactions, and the nursing process related to anticonvulsant agents; antipsychotic agents; cardiovascular agents; renal agents; anti-infective agents; and antineoplastic agents.

NURS 140  Adult Health Assessment  
1 hour lecture
Transfer acceptability: CSU
Basic concepts of health assessment to include interviewing and assessment techniques used to obtain a comprehensive health history from an adult and relating findings to the nursing process. Transcultural and adult developmental stage considerations are also included.

NURS 197  Nursing Topics  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Nursing. See Class Schedule for specific topic offered. Course title will designate subject covered.

NURS 203  Nursing Foundation II  
1 hour lecture
Prerequisite: A minimum grade of ‘C’ in NURS 103 or 110 or A copy of a current, active California LVN license in good standing must be on file in the Nursing Education Office prior to registering in this class.
Corequisite: NURS 118 or 217
Note: Graded only
Transfer acceptability: CSU
Builds on the foundation of Nursing 103 and 110. Critical thinking is utilized as a method to explore historical, political, educational, legal, ethical, and bioethical issues that impact nursing practice. Nursing organizations are researched via the internet with an emphasis on evaluation of nursing websites. Managerial concepts are introduced with a focus on decision making skills, managing resources, organizing time, delegating, and supervising care.

NURS 217  Nursing III  
4 hours lecture-15 hours laboratory
Prerequisite: A minimum grade of ‘C’ in NURS 118 or Admission to the Associate Degree Nursing Program (LYN-RN) or Admission to the non-degree program LYN-RN (30-unit option) and a minimum grade of ‘C’ in NURS 203, or concurrent enrollment in NURS 203.
Note: Graded only
Transfer acceptability: CSU
Builds on the first year of the program as a process for the development of complex thinking and decision making while caring for medical-surgical, gerontologic, and psychiatric clients. Theoretical concepts are expanded to include identification and prioritization of evidence based interventions for clients who have unpredictable outcomes or who demonstrate changes in health status. Students collaborate with the interdisciplinary team to manage and modify care of clients.

NURS 218  Nursing IV  
3½ hours lecture-16½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in NURS 203 and 217
Note: Graded only
Transfer acceptability: CSU
Builds on Nursing 217 expanding nursing practice and critical thinking in the promotion, maintenance, and restoration of health for a group of clients. Students use evidence-based interventions and complex decision-making when caring for acutely ill medical-surgical clients with unstable health problems. Students work collaboratively with the interdisciplinary team to manage and coordinate care for a group of clients. Emphasis is placed on student roles as coordinators, facilitators, and client advocates as they progress toward a competent entry level nursing practice.

NURS 295  Directed Study in Nursing  
3, 6, or 9 hours laboratory
Prerequisite: Approval of proposal by the department chairperson
Note: Pass/No Pass grading only
Transfer acceptability: CSU
Designed for the student who has demonstrated a proficiency in nursing subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes. Additionally, this course can be used for students transferring into the Palomar College Nursing program. Course work would fulfill needed content and/or clinical laboratory time to meet the requirements of the Associate Degree Nursing Program.
**Nutrition (NUTR)**

Contact the Design and Consumer Education Department for further information.
760-744-1150, ext. 2349
Office: DR-5
For transfer information, consult a Palomar College Counselor.

**NUTR 100 Introduction to Nutrition and Food Professions (3)**
3 hours lecture

*Transfer acceptability: CSU*

Overview of nutrition, food science, dietetics, and fitness professions and disciplines. Employment trends, career options, educational paths, ethical issues, and professional networking will be emphasized. Introduction to professional organizations and publications will be discussed.

**NUTR 120 Food and Culture (Formerly FCS 150) (3)**
3 hours lecture

*Transfer acceptability: CSU*

Exploration of food as an expression of cultural diversity, and examination of how traditional foods reflect geographic area and culture. Regional, ethnic, cultural, religious, historical, and social influences on food patterns are examined. Influence of socio-economic class, beliefs, gender, and age on diet, health, and disease are also discussed.

**NUTR 165 Fundamentals of Nutrition (Formerly FCS 165) (3)**
3 hours lecture

*Note: Cross listed as HE 165, Nutrition majors should contact a Nutrition advisor (x2345) to determine if NUTR/BIOL 185 is the right course for you.*

*Transfer acceptability: CSU, UC – NUTR 165, NUTR 185, BIOL 185, HE 165 combined: maximum credit, one course*

The study of how food nourishes the body. Investigation of diet fads and fallacies, eating for fitness, and planning meals for optimum health throughout the life cycle.

**NUTR 185 Science of Human Nutrition (Formerly FCS 185) (3)**
3 hours lecture

*Recommended preparation: CHEM 110 and BIOL 210 or BIOL 211*

*Note: Cross listed as BIOL 185*

*Transfer acceptability: CSU, UC – NUTR 165, NUTR 185, BIOL 185, HE 165 combined: maximum credit, one course*

C-ID NUTR 110

Science of food, nutrients, and other substances. Processes by which humans ingest, digest, absorb, transport, utilize, and excrete foods and nutrients are explored. Emphasis on biological, chemical, and physiological implications to human nutrition and overall health. Current nutrition recommendations and controversies are analyzed from a scientific perspective.

**NUTR 190 Scientific Principles of Food Preparation (4)**
2½ hours lecture – 4½ hours laboratory

*Recommended Preparation: CHEM 110L and ENG 100*

*Transfer acceptability: CSU*

C-ID NUTR 120

Application of food science principles. Emphasis is on ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food.

**NUTR 197 Topics in Nutrition (0.5 - 3)**
½ - 3 hours lecture – 1½-9 hours laboratory

*Transfer acceptability: CSU*

Topics in Nutrition. See Class Schedule for specific topics offered. Course title will designate subject covered.

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**Oceanography (OCN)**

Contact the Earth, Space, and Environmental Sciences Department for further information.
760-744-1150, ext. 2512
Office: NS-110G

**COURSE OFFERINGS**

**OCN 100 Oceanography Lecture (3)**
3 hours lecture

*Note: Not open to students with prior credit in OCN 101*

*Transfer acceptability: CSU, UC – OCN 100/100L and 101 combined: maximum credit, 4 units*

An introductory course designed to acquaint the student with general oceanography. Topics treated include the history and scope of oceanography, properties of sea water, ocean currents, ocean waves and tides, submarine morphology and geology, marine sediments, life in the sea, and the significance of the oceans to man.

**OCN 100L Oceanography Laboratory (1)**
3 hours laboratory

*Prerequisite: A minimum grade of ‘C’ in OCN 100, or concurrent enrollment in OCN 100*

*Transfer acceptability: CSU, UC – OCN 100/100L and 101 combined: maximum credit, 4 units*

Laboratory and field investigations of marine environments including geologic, physical, chemical, and biological aspects of the ocean and coastal area. The course emphasizes changing physical factors and man’s activities as they affect the oceans.

**OCN 197 Oceanography Topics (5 - 4)**

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

*Transfer acceptability: CSU, UC – Credit determined by UC upon review of course syllabus.*

Topics in Oceanography. See Class Schedule for specific topic covered. Course title will designate subject covered.

**OCN 295 Directed Study in Oceanography (1, 2, 3)**

Arrange 3, 6, or 9 hours laboratory with department chairperson

*Prerequisite: A minimum grade of ‘C’ in OCN 100 or 101*

*Transfer acceptability: CSU, UC – Credit determined by UC upon review of course syllabus.*

Individual study in field, library, or laboratory for interested students.

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**Office Information Systems (OIS)**

See Business (BUS)

**Philosophy (PHIL)**

Contact the Behavioral Sciences Department for further information.
760-744-1150, ext. 2330
Office: MD-261

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

Associate Degrees for transfer IGETC and CSUGE requirements are listed in Section 7 (green pages).
**Philosophy (AA-T)**

The Associate of Arts in Philosophy for Transfer (AA-T) is designed to provide students an introduction to the major theories and methods of philosophical inquiry in preparation for upper-division course work at the university level. The degree offers the opportunity to gain a broad understanding of the main themes within the history of philosophy while at the same time developing analytical and critical reasoning abilities. Critical thinking is emphasized in all philosophy classes and students can apply their skills of critical thinking to philosophical problems in metaphysics, theory of knowledge, ethics, social and political philosophy and philosophy of religion. The major introduces students to both Western and non-Western philosophical traditions.

Pursuant to SB1440, the following completion requirements must be met:

"(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0."

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

**AA-T TRANSFER MAJOR**

Program Requirements (Select 2 courses)

| PHIL 111 | Introduction to Philosophy | 3 |
| PHIL 114 | Asian Philosophies | 3 |
| PHIL 116 | Introduction to Ethics | 3 |
| PHIL 118 | Asian Philosophies | 3 |
| PHIL 120 | Analytic and Critical Thinking | 3 |
| PHIL 121 | Asian Philosophies | 3 |
| PHIL 125 | Analytic and Critical Thinking | 3 |

List A (Select 1 course)

Any course not taken above, or

| PHIL 113 | Reasoning About Philosophical Issues | 3 |
| PHIL 140 | History of Ancient Philosophy | 3 |
| PHIL 141 | History of Modern Philosophy | 3 |
| PHIL 142 | Contemporary Philosophical Movements | 3 |
| PHIL 200 | Critical Thinking | 3 |

List B (Select 2 courses)

Any courses not selected from List A, or

| PHIL 122 | Social and Political Philosophy | 3 |
| PHIL 126 | Philosophy of Religion | 3 |

List C (Select 1 course)

Any course not selected from List A or B, or

| PHIL 113 | Asian Philosophies | 3 |
| PHIL 125 | Philosophy of Human Nature | 3 |
| PHIL 250 | Philosophy in Literature | 3 |

**TOTAL UNITS** 18

**COURSE OFFERINGS**

| PHIL 111 | Introduction to Philosophy | (3) |

Recommended preparation: Eligibility for ENG 100
Transfer acceptability: CSU; UC

**C-ID PHIL 100**

Introduces philosophical ideas and methods concerning knowledge, reality and values. Expected topics will include the sources and limits of knowledge, and the nature of reality. Other topics that may be examined from a philosophical perspective include the nature of the self, truth, ethics, religion, science, language, beauty and art, political theory, or mind.

**PHIL 113** Reasoning About Philosophical Issues

(Formally PHIL 102)

3 hours lecture

Recommended preparation: Eligibility for ENG 100
Transfer acceptability: CSU; UC

Introduction to the relationship of language to logic, with applications of analysis, criticism, inductive and deductive reasoning and kinds of evidence to philosophical problems.

**PHIL 114** Asian Philosophies

(Formally PHIL 110)

3 hours lecture

Recommended preparation: Eligibility for English 100 as determined through the English placement process.
Transfer acceptability: CSU; UC

A critical examination of the philosophies which originated in Asia, including consideration of the practices which are associated with these belief systems. Several theories of meditation will be discussed. Some comparisons will be made to western attitudes and beliefs.

**PHIL 116** Introduction to Logic

(Formally PHIL 120)

3 hours lecture

C-ID PHIL 110

Transfer acceptability: CSU; UC

Introduces some principles of valid reasoning with emphasis on deductive logic. Must include a study of formal techniques of sentential logic. May also include a treatment of inductive reasoning, language, or fallacies.

**PHIL 121** Introduction to Ethics

3 hours lecture

Recommended preparation: Eligibility for English 100
Transfer acceptability: CSU; UC

Examines the concepts of good and evil, right and wrong, and theories of individual ethical responsibility. The course may also apply ethical theories to examine various social issues such as war, abortion, gun control, euthanasia, racism, and sexism.

**PHIL 122** Social and Political Philosophy

3 hours lecture

Recommended preparation: Eligibility for ENG 100
Transfer acceptability: CSU; UC

Introduction to philosophy focusing on the central issues of society and politics, such as the nature and justification of political authority, citizenship, law, justice (distributive and retributive), power, the limits of government and individual liberty. These issues are examined through classic and contemporary texts in the history of political philosophy.

**PHIL 125** Philosophy of Human Nature

(Formally PHIL 103)

3 hours lecture

Recommended preparation: Eligibility for ENG 100
Transfer acceptability: CSU; UC

Survey course of theories of human nature and their presuppositions and implications. Presuppositions about human nature underlie religious, political, ethical, psychological, sociological, and scientific theories and contemporary debates in these fields. Students will read primary texts drawn from various disciplines, cultures, and/or historical periods with the goals of understanding the theories of human nature and learning how to critically evaluate them.
PHIL 126 Philosophy of Religion (3)
(Formerly PHIL 105)
3 hours lecture
Recommended preparation: Eligibility for English 100 as determined through the English placement process.
Transfer acceptability: CSU; UC
A critical consideration of selected perennial and modern problems: definition and role of religion and religious experience, mysticism, grounds for religious beliefs, and religious ethics. Students will be urged to evaluate critically their views of religion and their own religious beliefs.

PHIL 140 History of Ancient Philosophy (3)
(Formerly PHIL 135)
3 hours lecture
Recommended Preparation: Eligibility for English 100 as determined through the English placement process.
Transfer acceptability: CSU; UC
C-ID PHIL 130
Addresses ancient philosophy. Emphasis will be on the development of Greek philosophy from the Pre-Socratics through Aristotle. May also include Hellenistic, Roman, medieval or non-western thinkers.

PHIL 141 History of Modern Philosophy (3)
(Formerly PHIL 136)
3 hours lecture
Recommended Preparation: Eligibility for English 100 as determined through the English placement process
Transfer acceptability: CSU; UC
C-ID PHIL 140
Addresses 16th through 18th century philosophy. Emphasis will be on broad epistemological and/or metaphysical developments of empiricism and rationalism in philosophical thought from Descartes to Kant. May include approximate precursors and successors.

PHIL 142 Contemporary Philosophical Movements (3)
(Formerly PHIL 130)
3 hours lecture
Recommended preparation: Eligibility for English 100 as determined through the English placement process.
Transfer acceptability: CSU; UC
Addresses philosophy of the 20th century views of the individual, society and reality, such as Existentialism, Marxism, Pragmatism and Transcendentalism. The movement of thought will be approached as an attempt to deal reflectively with certain problems of living in the modern world. The philosophy studied will vary from semester to semester.

PHIL 197 Philosophy Topics (5-6)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Philosophy. See Class Schedule for specific topic covered. Course title will designate subject covered.

PHIL 200 Critical Thinking (3)
(Formerly PHIL 115)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in ENG 100
Transfer acceptability: CSU; UC
Development of skills for critical thinking including open-mindedness, functions and wayward uses of language, informal fallacies, hypotheses and inductive reasoning, and elementary deductive inference forms. Basic communication skills, especially written, are developed and a critical perspective on world views is emphasized.

PHIL 201 Symbolic Logic (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in MATH 56 or MATH 60 or eligibility for MATH 100 as determined through the Math placement process.
Transfer acceptability: CSU; UC
C-ID PHIL 210
Introduces the principles of valid deductive reasoning through the study of formal techniques of sentential logic and predicate logic.

PHIL 250 Philosophy in Literature (3)
3 hours lecture
Transfer acceptability: CSU; UC
A study of philosophical concepts as they appear in the academic and nonacademic writings of philosophers, and in related writings by nonphilosophers. The writings are examined from the perspectives of both philosophical analysis and cultural context. The works and thinkers studied vary from semester to semester. See the class schedule for the current semester’s theme.

PHIL 295 Directed Study in Philosophy (1, 2, 3)
Enrollment subject to project approval
Prerequisite: Enrollment subject to project approval
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
An individualized or group project in philosophy of any nature approved by, and under the personal supervision of, the instructor.

Programs of Study

Photography (PHOT)
See also Journalism

Contact the Media Studies Department for further information.
760-744-1150, ext. 2440
Office: P-31
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
For transfer information, consult a Palomar College Counselor.

Alternative Process Photography (CP)
This certificate is designed to provide an avenue for those students interested in pursuing a career as a photographer. The course work will address a range of technical issues, personal expression, aesthetics, criticism, portfolio development and history.

Certificate of Proficiency

Program Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 100</td>
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<td>or</td>
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<tr>
<td>PHOT 124</td>
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<tr>
<td>Digital Photographers</td>
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<td>PHOT 213</td>
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<tr>
<td>Carbon Printing</td>
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<td>PHOT 214</td>
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<td>Photogravure</td>
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<td>PHOT 215</td>
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<td>Creative Photography</td>
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<td>PHOT 216</td>
<td>3</td>
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<tr>
<td>Alternative Photographic Processes</td>
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</tbody>
</table>

TOTAL UNITS 15
Commercial Photography (CP)
This Certificate is designed to provide an avenue for those students interested in pursuing a career as a professional photographer in the areas of advertising photography, product photography, portrait and wedding photography, photojournalism, editorial and documentary photography and other photo related vocations. Courses address technique, aesthetics, ethics and business practices. See course description for specific topics and prerequisites.

CERTIFICATE OF PROFICIENCY

**Program Requirements**

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<th>Course</th>
<th>Units</th>
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<td>PHOT 220</td>
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<td>PHOT 225</td>
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<td>PHOT 209</td>
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</table>

**TOTAL UNITS** 15

Fine Art Traditional Photography (CP)
This certificate is designed to provide an avenue for those students interested in pursuing a career as a fine art photographer. The course work will address a range of technical issues, personal expression, aesthetics, criticism, portfolio development, and history. See course description for specific topics and prerequisites.

CERTIFICATE OF PROFICIENCY

**Program Requirements**

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<th>Course</th>
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**Eletives (Select 2 courses)**

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<td>ART 104</td>
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**TOTAL UNITS** 15

Photography (AA, CA)
The Photography Program offers students the opportunity to study photography from beginning to advanced levels. Our courses prepare students in a variety of areas, including fine art, editorial, and commercial photography. The program stresses development of creativity while offering a firm grounding in basic skills. Our students will be prepared for positions in the job market or transfer to a 4 year college to continue their education. Students can earn an Associate in Arts Degree or a Certificate of Achievement in Photography.

A.A. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT

**Program Requirements**

<table>
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<th>Course</th>
<th>Units</th>
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<td>PHOT 160</td>
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</table>

**TOTAL UNITS** 33

**COURSE OFFERINGS**

Courses numbered under 100 are not intended for transfer credit.

PHOT 50 Digital Camera (3)
3 hours lecture
Principles and use of digital cameras for beginners. Understand how your digital camera works and what the menu selections mean. Learn to download image files to your computer, make basic editing changes and how to share your images via web, email and slide presentations. The aesthetics and technology of digital photography will be discussed in lecture and critique sessions of student assignments.

PHOT 100 Elementary Film and Darkroom Photography (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU; UC
Introduction to the mechanics, optics, chemistry, lighting principles, and practices of elementary photography using film. Explores the history, aesthetics, and the conceptualization of photographic imagery. Includes darkroom procedures in developing, printing, and finishing black and white photographic materials.

PHOT 105 Intermediate Black and White Photography (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 100 or PHOT 124
Transfer acceptability: CSU; UC
Continues the study of the art and techniques associated with black and white photography. Problems relating to small and medium format camera systems and optics will be identified and compared. Further refinement in darkroom procedures and aesthetics will be explored.

PHOT 120 Digital Photography (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Introduction to theory, mechanics, optics, lighting principles, and practices of photography using Digital Cameras. Explores the history, aesthetics, and the conceptualization of photographic imagery. Photographic seeing is stressed. Includes practices and procedures for image capture, asset management, software developing, printing, finishing and presentation and critique. Students are required to have an adjustable digital camera with manual exposure and RAW format capabilities.
PHOT 124  Introduction to Film and Darkroom for Digital Photographers  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT 120  
Transfer acceptability: CSU  
Introduces digital photographers to analog film and darkroom methods. Includes film camera mechanics and operations, chemistry, film development, darkroom principles and practices of elementary black and white film photography. Contemporary and historical photographic imagery will be viewed and discussed. Encourages the development of personal artistic expression and visual perception through various photographic assignments. The aesthetics of photography and the conceptualization of photographic imagery will also be addressed. Many types of film cameras will be acceptable for this class. A film camera is required and your instructor will describe appropriate cameras the first day of class.

PHOT 125  History and Criticism of Photography  
3 hours lecture  
Transfer acceptability: CSU; UC – PHOT 125 and 170 combined: maximum credit, one course  
A survey of the history of photography from its invention to modern times and its development as an art and communication medium. Examines important photographers, their lives and works, in order to establish a critical understanding of photography and its place in our culture.

PHOT 130  Digital Darkroom I  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT 120  
Transfer acceptability: CSU  
The technology of digital photography, the computer, and inkjet printers. Emphasis on industry standard image editing software as the primary photographic processing and manipulation tools. Continuing instruction in digital image processing directed toward photographic output. Development of capabilities and use of the digital darkroom.

PHOT 135  Digital Darkroom II  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT 130  
Transfer acceptability: CSU  
A continuing investigation into the technology, theory and aesthetics of digital photography with instruction on advanced digital image processing from a photographic perspective. Emphasis will be on creating outstanding imagery, perfecting output through the advance use of image editing software, and advancing visual literacy.

PHOT 140  Photojournalism  
1½ hours lecture - 4½ hours laboratory  
Note: Cross listed as JOUR 140  
Recommended Preparation: PHOT 120  
Transfer acceptability: CSU  
C-ID JOUR 160  
A study of the history and practice of photojournalism, providing specific application through photographing for The Telescope, Palomar College’s newspaper. Students must provide own camera.

PHOT 145  Advanced Photojournalism  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT/JOUR 140  
Transfer acceptability: CSU  
Designed to further develop those skills learned in PHOT 140. Provides advanced-level staffing for the college newspaper, magazine, and website. Emphasizes the use of multimedia productions, such as slide shows and DSLR video.

PHOT 160  Photography: Professional Practices  
3 hours lecture  
Transfer acceptability: CSU  
Prepares students for success in the photography world. Instruction and tactics on creating an operational plan, necessary paperwork, ethical issues, copywriting your photographs, working with clients and building the client base, pricing, invoicing, insurance and marketing. Appropriate for Commercial and Fine Art Photographers.

PHOT 170  The Photography and Photographers of California  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT 100 or PHOT 120  
Transfer acceptability: CSU; UC – PHOT 125 and 170 combined: maximum credit, one course  
A survey and comparison of past and present California photographers and their work. An analysis of their philosophies and practices as it applies to the execution of photography as both an art and communication medium. There are numerous visitsations with established photographers and galleries. Usually will require one trip of several days outside of the local area.

PHOT 171  Landscape and Culture  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT 120  
Transfer acceptability: CSU (pending)  
A photographic exploration of the interaction, influences and impact connecting humans, nature and the landscape.

PHOT 197A  Photography Topics: Field Studies  
(5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in Photography, Field Studies. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 197B  Photography Topics: Technical Studies  
(5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in Photography, Technical Studies. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 197C  Photography Topics: General  
(5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU  
Topics in Photography, General. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 209  Photographic Portfolio  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT 105 or PHOT 130  
Transfer acceptability: CSU  
Methods of portfolio design and production, goal setting, market research, resumes, artist statements, cover and inquiry letters and self-promotion for a range of career, scholastic and artistic purposes. Students will be required to employ their developing visual literacy, analytical skills and subjective thought. Field trips and classroom visits by working professionals will be incorporated.

PHOT 210  Advanced Black and White Photography  
1½ hours lecture - 4½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHOT 105  
Transfer acceptability: CSU, UC  
An exploration of the creative and technical possibilities of the View Camera through various assignments aimed at developing a personal style and approach to the production of quality black and white photography. A study of the relationship between film exposure and development and its application in the “zone system” is stressed.
PHOT 212  Landscape Photography (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 100 or PHOT 120
Transfer acceptability: CSU
A survey and comparison of past and present landscape photography. An analysis of different philosophies and approaches as it applies to different locations. Usually will require one trip of several days outside of the local area.

PHOT 215  Creative Photography (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 100
Transfer acceptability: CSU; UC
Exploration of photography as an art form using both conventional and non conventional silver and non silver processes to permit broad variations and approaches to photographic expression.

PHOT 216  Alternative Photographic Processes (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 105, or concurrent enrollment in PHOT 105
Transfer acceptability: CSU
A practical, hands-on survey of historical alternatives and contemporary variations to the modern standard photographic process. Silver, Ferric, Dichromate, and Photomechanical possibilities for self expression will be explored. Typical processes learned will include Van Dyke, Cyanotype, Platinum and Palladium Kallitype, Bromoil, and gum printing.

PHOT 220  Commercial Photography (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 130
Transfer acceptability: CSU
Considerations of professional technical fundamentals in lighting, camera systems, digital workflow and management as applied in studio and location photography for commercial, advertising, and promotional purposes.

PHOT 225  Photographic Portraiture (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 130
Transfer acceptability: CSU
Techniques and styles of photographic portraiture. Studio and non studio applications will be explored using black and white and color films or digital capture. Emphasis on lighting equipment and techniques.

PHSC 100L  Introduction to Physical Science Laboratory (1)
3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHSC 100, or concurrent enrollment in PHSC 100
Transfer acceptability: CSU; UC – No credit for students with prior lab credit in ASTR, CHEM, GEOL or PHYS
The study of selected topics from the fields of astronomy, geology, physics, chemistry, and their related sciences through lab exercises. A general education course designed particularly for non-science majors. For teacher training see PHSC 101L.

PHSC 101  Principles of Physical Science (3)
3 hours lecture
Transfer acceptability: CSU
The study of selected topics from the fields of physics and chemistry and their related sciences through lectures, films, and demonstrations. A general education course designed particularly for non science majors. Especially recommended for teacher training.

PHSC 101L  Principles of Physical Science Laboratory (1)
3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHSC 101, or concurrent enrollment in PHSC 101
Transfer acceptability: CSU
The study of selected topics from the fields of physics and chemistry and their related sciences through lab exercises. A general education course designed particularly for non-science majors; not open to majors in physics, chemistry, or engineering. Especially recommended for teacher training.

PHYS 101  Introduction to Physics (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MATH 50 or one year of high school Algebra
Note: Not open to students with prior credit in PHYS 100, 110, 115, 120, 125, 230, 231, and 232
Transfer acceptability: CSU; UC
An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 102  Introduction to Physics (Lecture) (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in MATH 50 or one year of high school Algebra
Note: Not open to students with prior credit in PHYS 101, 110, 115, 120, 125, 230, 231, and 232
Transfer acceptability: CSU; UC
An introductory survey course in classical and modern physics. Not intended for science majors.
PHYS 120 General Physics
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in MATH 110
Recommended preparation: MATH 115
Transfer acceptability: CSU; UC
C-ID PHYS 105; C-ID PHYS 1005 for PHYS 120 and 121 combined
The fundamental principles of classical mechanics, wave motion, sound, thermodynamics, and fluids.

PHYS 121 General Physics
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in PHYS 120
Transfer acceptability: CSU; UC
C-ID PHYS 110; C-ID PHYS 1005 for PHYS 120 and 121 combined
A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

PHYS 197 Physics Topics
(5-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus
Topics in Physics. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHYS 200 Fundamentals of Physics
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in MATH 140, or concurrent enrollment in MATH 140
Note: PHYS 200-201 series not recommended for majors in engineering, computer science or physics; PHYS 230 series recommended for majors in engineering, computer science, or physics.
Transfer acceptability: CSU; UC
A calculus-based course in classical mechanics, waves, sound, fluids and thermodynamics, with an emphasis on life science, pre-professional, and architectural fields.

PHYS 201 Fundamentals of Physics
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in PHYS 200; A minimum grade of "C" in MATH 141, or concurrent enrollment in MATH 141
Note: PHYS 200-201 series not recommended for majors in engineering, computer science or physics; PHYS 230 series recommended for majors in engineering, computer science, or physics.
Transfer acceptability: CSU; UC
A calculus-based course in classical electromagnetism, optics and atomic physics, with an emphasis on life science, pre-professional, and architectural fields.

PHYS 230 Principles of Physics
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in MATH 141, or concurrent enrollment in MATH 141
Recommended preparation: PHYS 130
Transfer acceptability: CSU; UC
C-ID PHYS 205; PHYS 200S for PHYS 230, 231 and 232 combined
Classical mechanics, thermodynamics, and fluid dynamics. Required for students whose major field is physics, chemistry, or engineering. This is the first semester of a three semester sequence.

PHYS 231 Principles of Physics
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in PHYS 230; A minimum grade of "C" in MATH 205, or concurrent enrollment in MATH 205
Transfer acceptability: CSU; UC
C-ID PHYS 210; PHYS 200S for PHYS 230, 231 and 232 combined
Classical electromagnetism, electromagnetic waves, and optics. Required for students whose major field is physics, chemistry, or engineering. This is the second semester of a three semester sequence.

PHYS 232 Principles of Physics
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of "C" in PHYS 231 or PHYS 201, and MATH 205
Transfer acceptability: CSU; UC
C-ID PHYS 215; PHYS 200S for PHYS 230, 231 and 232 combined
Modern Physics. Required for students whose major field is physics, chemistry, or engineering. This is the third semester of a three-semester sequence.

PHYS 295 Directed Study in Physics
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson
Transfer acceptability: CSU
Designed for the student who has demonstrated a proficiency in physics subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

Political Science (POSC)
See Biological Sciences

COURSE OFFERINGS

POSC 100 Introduction to Political Science
3 hours lecture
Transfer acceptability: CSU; UC
Introduction to the scope and methods of political science; basic political concepts and policies; comparative government institutions, stressing the United States; an overview of political theories, international politics, and political economy.

POSC 101 Introduction to Politics and American Political Institutions
3 hours lecture
Note: This course plus POSC 102 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC
C-ID POLS 110 for POSC 101 and 102 combined
A study of the development of American political institutions, the basic features of the Constitution, and major court interpretations that affect our lives today. Special attention will be given to understanding the historical origins of the US Political System from colonialism to reconstruction and the historical development of the civil rights revolution of various ethnic and gender groups, their historical struggles and efforts to overcome discrimination. This course will also address the electoral process and fundamental concepts of democracy, liberty, diversity, and equality. This course, together with POSC 102, satisfies the American History and Institutions requirement.

POSC 102 Introduction to United States and California Governments
3 hours lecture
Note: This course plus POSC 101 meets the State requirement in American History and Institutions.
Transfer acceptability: CSU; UC
C-ID POLS 110 for POSC 101 and 102 combined
An examination of the US Constitution as it relates to the major institutions of government: the Congress, the Presidency, and the Supreme Court. It also emphasizes social, economic, and foreign policy so that students will have an understanding of the issues they face in the contemporary era. California history and government, another course component, will be compared and contrasted to the national political system.
POSC 110  Introduction to World Politics  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Sources and uses of power in the arena of international politics. Causes and consequences of 20th century wars. The balance of power, history, geography, military and economic potential will be examined to show their impact on foreign policies of the United States, Europe, Russia, Japan, China and less-developed states. Uses of military force, economic leverage, diplomacy, law, etc., discussed as approaches to limit war.

POSC 120  California Government  (1)
1 hour lecture
Transfer acceptability: CSU
Intended for students who have completed the American History and Institutions requirements for the A.A. Degree or CSU General Education, but have not met the California Constitution requirement. Organization and operation of California state and local government. Stress upon citizen participation in the decision making process.

POSC 121  Introduction to Law  (3)
3 hours lecture
Note: Cross listed as LS 121
Transfer acceptability: CSU; UC - BUS 115, 116, 117, LS 121 combined: maximum credit, one course.
An introduction to law and the legal system. Includes an examination of the federal and state court system, criminal law, civil law, administrative law, and procedural law.

POSC 240  Civil Liberties and Procedures  (3)
3 hours lecture
Note: Cross listed as LS 240
Transfer acceptability: CSU; UC
The study of the Bill of Rights and Supreme Court decisions focusing on civil rights and liberties. This area of constitutional law examines the relationship between individuals and government. Emphasis is on minority issues such as privacy, personal freedom, political equality, and first amendment jurisprudence.

POSC 197  Political Science Topics  (5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU - UC - Credit determined by UC upon review of course syllabus.
Topics in Political Science. See Class Schedule for specific topic offered. Course title will designate subject covered.

POSC 295  Directed Study in Political Science  (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: Approval of project or research by department chairperson
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.
Independent study designed for advanced students who have demonstrated a proficiency in political science subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Psychology (PSYC)
Contact the Behavioral Sciences Department for further information.
760-744-1150, ext. 2329
Office: MD-241
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
Associate Degrees for transfer IGETC and CSUGE requirements are listed in Section 7 (green pages).

PROGRAMS OF STUDY
Alcohol and Other Drug Studies (AS, CA)
Provides the student with the academic training and hands on experience for entry-level employment in delivery of alcohol and other drug treatment services in agency settings and serves as a preparation for California state examinations as a certified addictions treatment counselor by CAADE and as a certified alcoholism and drug abuse counselor by CAADAC.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT
Program Requirements  Units
PSYC 100  Introduction to Psychology  3
PSYC/SOC/ AODS 150  Introduction to Alcohol and Other Drug Studies  3
PSYC/SOC/ AODS 155  The Physiology and Pharmacology of Psychoactive Drugs  3
PSYC/SOC/ AODS 160  Prevention, Intervention, and Education  3
PSYC 225  Psychology of Abnormal Behavior  3
PSYC/SOC/ AODS 250  Group Leadership and Process  3
PSYC/SOC/ AODS 255  Case Management, Law and Ethics  3
PSYC/SOC/ AODS 260  Chemical Dependency Family Counseling  3
PSYC/SOC/ AODS 299  Directed Field Experience II  6

Group One (Select 3 units)
SOC 100  Introduction to Sociology  3
SOC 110  Social Problems  3

Group Two (Select 4-5 units)
PSYC/SOC/ AODS 140  Introduction to Psychological and Social Services  4
PSYC/SOC/ AODS 298  Directed Field Experience I  5

TOTAL UNITS  37 - 38
Alcohol and Other Drug Studies is also listed in Alcohol and Other Drug Studies.
Psychology and Social Services (AA, CA)

Provides the student with the academic training and hands on experience for entry-level employment in human services and serves as preparation for upper division course work.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COUN 100</td>
<td>Introduction to Basic Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>PSYC/SOC/</td>
<td>Intro to Psychological and Social Services</td>
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</tr>
<tr>
<td>PSYC 225</td>
<td>Psychology of Abnormal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 235</td>
<td>Learning/Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC/</td>
<td>Directed Field Experience I</td>
<td>5</td>
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<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
<td>3</td>
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<tr>
<td>SOC 110</td>
<td>Social Problems</td>
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Electives (Select 3 units)

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PSYC/SOC 105</td>
<td>Marriage, Family and Intimate Relationships</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 110</td>
<td>Developmental Psychology – Child/Adult</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 115</td>
<td>Psychology of Personal Growth</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 120</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC 145</td>
<td>Psychology and Sociology of Aging</td>
<td>3</td>
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<tr>
<td>AODS 155</td>
<td>Physiology/Pharmacology of Psychoactive Drugs</td>
<td>3</td>
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</table>

TOTAL UNITS 30

Psychology (AA-T)

Psychology is a discipline that uses the scientific method to study animal and human behavior. This Associate in Arts in Psychology for Transfer degree offers students the opportunity to meet lower division transfer requirements for a major in Psychology, leading to a Bachelor of Arts or Bachelor of Science in Psychology at a California State University (CSU). Students who earn this degree will receive priority admissions at a CSU. The Associate in Arts in Psychology for Transfer degree is the first step in preparing students for professions and areas of interest related to psychology such as Clinical Psychology, Counseling, Medicine, Law, Management, Business, Social Work, and Teaching.

AA-T TRANSFER MAJOR

Pursuant to SB1440, the following completion requirements must be met:

1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2) Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>*PSYC 100</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>*PSYC 205/</td>
<td>Statistics for the Behavioral Sciences</td>
<td>4</td>
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<tr>
<td>*PSYC 230</td>
<td>Research Methods in Psychology</td>
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List A (Select 1 course)

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<th>Units</th>
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<td>BIOL 100</td>
<td>General Biology</td>
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<tr>
<td>BIOL 105</td>
<td>Biology with a Human Emphasis</td>
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<tr>
<td>PSYC 210</td>
<td>Physiological Psychology</td>
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List B (Select 1 course)

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<th>Course</th>
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<tbody>
<tr>
<td>PSYC 110</td>
<td>Developmental Psychology - Child Through Adult</td>
<td>3</td>
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<tr>
<td>PSYC 120</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 225</td>
<td>Psychology of Abnormal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 235</td>
<td>Principles of Learning and Behavior Modification</td>
<td>3</td>
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List C (Select 1 course)

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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PSYC 105/</td>
<td>Marriage, Family and Intimate Relationships</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 115</td>
<td>The Psychology of Personal Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 125/</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 130</td>
<td>Psychology of Women</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 21

*Course is required major preparation at CSU San Marcos (CSUSM). Students planning to transfer to CSUSM are advised to select these courses to complete this degree. For more information on this major at CSUSM, please refer to the articulation agreement at ASSIST.ORG.

COURSE OFFERINGS

PSYC 100 Introduction to Psychology (3) 3 hours lecture
Transfer acceptability: CSU, UC
C-ID PSY 110
A general introduction to the principles of human and animal behavior. Topics covered include history of psychology, research thinking, intelligence, lifespan development, gender and human sexuality, motivation and emotion, health psychology, personality, psychological disorders, therapy, social psychology, and other related topics (e.g., industrial/organizational psychology, sports psychology, environmental psychology, forensic psychology). Emphasis is placed upon the relationship between general principles of psychology and their practical applications.

PSYC 105 Marriage, Family, and Intimate Relationships (3) 3 hours lecture
Note: Cross listed as SOC 105
Transfer acceptability: CSU, UC
C-ID SOCI 130
A study of the psychology and sociology of the family and intimate relationships. Emphasizes factors that enhance interpersonal relationships. Topics include love, marital choice, communication, conflict, and changing models of the family. Examines cross-cultural and historical factors that impact the family as a social institution and the impact of gender, race and ethnicity, social class, age, and sexual orientation on family organization.

PSYC 110 Developmental Psychology – Child Through Adult (3) 3 hours lecture
Transfer acceptability: CSU, UC
C-ID PSY 180
Provides an overview, from a psychological perspective, of human growth and development throughout the lifespan, from conception to death. Biological and environmental influences on development, developmental theories and research of physical, cognitive, personality, and social development, as well as attention to developmental problems are examined.

PSYC 115 The Psychology of Personal Growth and Development (3) 3 hours lecture
Transfer acceptability: CSU
C-ID PSY 115
This course is designed with an applied focus for students interested in how psychology is useful in everyday life and how scientists, clinicians, and practitioners study and apply psychology. The course surveys different theories and psychological perspectives and how these may be applied across a person's life. The influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status are examined. Emphasis on self-understanding and application through the study of the individual, environment and social relationships which contribute to unique personal development.
PSYC 120  Social Psychology  (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID PSY 170
Consider individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition.

PSYC 125  Human Sexuality  (3)
3 hours lecture
Note: Cross listed as SOC 125
Transfer acceptability: CSU; UC
C-ID PSY 130
Survey of topics pertinent to an understanding of the development of human sexuality. Emphasis on biological, psychological, and cultural determinants of sexual behavior. Current sex norms and various aspects of interpersonal and individual sexual adjustment.

PSYC 130  Psychology of Women  (3)
3 hours lecture
Transfer acceptability: CSU; UC
Psychological research and theories to examine the development and impact of gender identity. Explores the ways race, ethnicity, class, sexual orientation, and age modify women's experience. Areas covered include communication, mental and emotional adjustment, sex-role socialization, body image, family, work, and intimacy. Content will be relevant to both women and men.

PSYC 140  Introduction to Psychological and Social Services  (4)
3 hours lecture - 3 hours laboratory
Note: Cross listed as SOC 140/AODS 140
Transfer acceptability: CSU
Supervised internship in a human service agency or an alcohol and other drug treatment facility. An overview of the field of human services, including alcohol and other drug treatment. The roles of psychologists, sociologists, social workers, family therapists, social service assistants and addiction counselors are compared and contrasted, and the issues they deal with are described. Through cooperative efforts of provider agencies, the instructor, and the student, the skills utilized for entry-level employment are observed, practiced, and evaluated under supervision.

PSYC 145  Psychology and Sociology of Aging  (3)
3 hours lecture
Note: Cross listed as SOC 145
Transfer acceptability: CSU
A multi disciplinary approach to the field of gerontology: historical, demographic, psychological, and sociological aspects of aging.

PSYC 150  Introduction to Alcohol and Other Drug Studies  (3)
3 hours lecture
Note: Cross listed as SOC 150/AODS 150
Transfer acceptability: CSU
Examines alcohol, tobacco and psychoactive drugs in society. Biological, psychological and socio-cultural factors of drug abuse and dependence will be explored. The impact of addiction on families and society; contemporary treatment techniques, and the addiction counseling profession will be covered.

PSYC 155  The Physiology and Pharmacology of Psychoactive Drugs  (3)
3 hours lecture
Note: Cross listed as SOC 155/AODS 155
Transfer acceptability: CSU
This course will examine how psychoactive drugs affect the nervous system. Ways of classifying drugs will be identified including the processes of physical and psychological dependence, tolerance, withdrawal, and genetic predispositions. Temporary and long-term affective, behavioral, cognitive, biological, and social consequences of psychoactive drug use will be explored, including disorders such as Korsakoff's syndrome and other nutritional deficiencies.

PSYC 160  Prevention, Intervention, and Education  (3)
3 hours lecture
Note: Cross listed as SOC 160/AODS 160
Transfer acceptability: CSU
This course will review historical and contemporary approaches for chemical dependency, including prevention, intervention, and education. It will analyze the progression of substance abuse and chemical dependency disorders and will evaluate types of prevention, education, and intervention strategies.

PSYC 197  Special Topics in Contemporary Psychology  (1,1.5,2,3)
1, 1½, 2, or 3 hours lecture
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Current topics of special interest to psychology students will be debated and discussed in a seminar format. Issues in such areas as social psychology, perception and learning, personality, and others will be analyzed from theoretical and methodological perspectives. Content will change from semester to semester.

PSYC 205  Statistics for the Behavioral Sciences  (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 56 or 60 or eligibility determined through the math placement process.
Note: Cross listed as SOC 205
Transfer acceptability: CSU; UC – PSYC/SOC 205 and MATH 120 combined: maximum credit, one course
C-ID MATH 110
Quantitative and qualitative methods as applied to behavioral science data. Frequency distributions, measures of central tendency, variability, hypothesis testing, measures of probability and significance, correlation, regression, and inferential statistics. Also included are data entry, graphing, statistical analysis, and interpretation of data using word processing, spreadsheet, and statistical software.

PSYC 210  Physiological Psychology  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in PSYC 100
Transfer acceptability: CSU; UC
C-ID PSY 150
An examination of the biological basis of behavior. Topics to be covered include neuroanatomy, neurophysiology, psychoactive drug use and addiction, endocrinology, encephalic evolution, learning and memory, sexual behavior, sleep processes and neuropsychological disorders. Laboratory includes neuroanatomical dissection.

PSYC 211  Introduction to Cognitive Psychology  (3)
3 hours lecture
Recommended Preparation: PSYC 100
Transfer acceptability: CSU; UC pending
A general introduction to the principles of cognition. This course examines theoretical and research approaches to the study of cognitive neuroscience, perception, attention, memory, knowledge, visual imagery, language acquisition and development, problem solving and decision making.

PSYC 225  Psychology of Abnormal Behavior  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in PSYC 100
Transfer acceptability: CSU; UC
C-ID PSY 120
Identification and description of the various types of psychological abnormalities, deficiencies, and disorders which may interfere with a human individual's ability to cope with the demands of the surroundings. All of the major psychiatric categories will be covered as well as the types of personality problems which lead to domestic, social, and economic inadequacies, and in some instances, to difficulties with the law.
PSYC 230 Research Methods in Psychology (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PSYC 100, PSYC/SOC 205, ENG 100
Transfer acceptability: CSU/UC
C-ID PSY 205B
Introduction to psychological research methods with emphasis on the use of the scientific method in psychological research. The laboratory is designed to complement the lectures and allow each student to design and conduct psychological research.

PSYC 235 Principles of Learning and Behavior Modification (3)
3 hours lecture
Transfer acceptability: CSU/UC
The basic principles and research in classical conditioning, operant conditioning, cognitive learning processes, the impact of biochemical processes on learning, and application of behavior modification techniques for changing behavior.

PSYC 250 Group Leadership and Process (3)
3 hours lecture
Note: Cross listed as AODS 250/SOC 250
Transfer acceptability: CSU
An introduction to the dynamics of group interaction, with emphasis upon the individual’s firsthand experience as the group studies itself under supervision. Problems of communication, effective emotional responses, and personal growth will be highlighted. The emphasis will be upon group process as a means of changing behavior.

PSYC 255 Case Management, Law and Ethics (3)
3 hours lecture
Note: Cross listed as AODS 255/SOC 255
Transfer acceptability: CSU
This course reviews the principles and practice of case management in addiction treatment including the processes of intake, screening, assessment, treatment planning, referral, and documentation. Professional and ethical codes of conduct and behavior are also reviewed and emphasized.

PSYC 260 Chemical Dependency Family Counseling (3)
3 hours lecture
Note: Cross listed as AODS 260/SOC 260
Transfer acceptability: CSU
This course is designed to explore methods of assisting family members and others to understand and to cope with the alcohol and drug abuse of alcoholics and addicts. Several family therapy modalities will be explored. The approach will be experiential in format and students will participate in exercises that lead to the development of these skills.

PSYC 298 Directed Field Experience I (5)
3 hours lecture - 6 hours laboratory
Note: Cross listed as AODS 298/SOC 298
Transfer acceptability: CSU
Supervised internship in a human service agency or an alcohol and other drug treatment facility. The student intern will have an opportunity to observe human service providers working with clients in agency settings. Ethical guidelines for helping professions, developing cultural competence, stages of change and motivational interviewing as a helping style are discussed. Interns practice interviewing skills for increasing motivation for positive change.

PSYC 299 Directed Field Experience II (6)
3 hours lecture - 9 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AODS 140/SOC 140/PSYC 140 or AODS 298/SOC 298/PSYC 298 and AODS 250/SOC 250/PSYC 250 and AODS 235/SOC 235/PSYC 235
Note: Cross listed as AODS 299/SOC 299
Transfer acceptability: CSU
Supervised internship in an alcohol and other drug treatment facility. This course emphasizes advanced concepts in chemical dependency. Students refine their skills for the 12 core functions of effective clinical practice and compile a professional portfolio in preparation for the state certifying written exam. This course meets the 45-hour supervised practicum requirement for the California Certification Board of Alcohol and Drug Counselors.

Public Works Management (PWM)
Contact Occupational & Noncredit Programs for further information.
760-744-1150, ext. 2284
Office: AA-J-135
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

Public Works Management - Level I (CA)
Specifically designed for individuals employed by or seeking employment in public works organizations in San Diego County. Provides as overview for field personnel of the basic elements of the Public Works Industry and introduces students to administrative responsibilities and planning. This certification level prepares field personnel for “Lead Worker” positions. This is a cooperative program offered by Citrus, Palomar and Santiago Canyon Colleges in collaboration with and approved by the Maintenance Superintendents Association and American Public Works Association.

CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWM 50</td>
<td>Introduction to Public Works</td>
</tr>
<tr>
<td>PWM 51</td>
<td>Street Construction and Maintenance</td>
</tr>
<tr>
<td>PWM 52</td>
<td>Asphalt and Portland Cement</td>
</tr>
<tr>
<td>PWM 53</td>
<td>Public Works Inspection</td>
</tr>
<tr>
<td>MATH 50</td>
<td>Beginning Algebra</td>
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<tr>
<td>Electives (Select 3 units)</td>
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<tr>
<td>BMGT 101</td>
<td>Introduction to Management</td>
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<tr>
<td>BUS 125</td>
<td>Business English</td>
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<tr>
<td>BUS 138</td>
<td>Business Ethics</td>
</tr>
<tr>
<td>BUS 187</td>
<td>Project for Business</td>
</tr>
<tr>
<td>SPCH 115</td>
<td>Interpersonal Communication</td>
</tr>
</tbody>
</table>

TOTAL UNITS 19

Public Works Management - Level II (AS, CA)
Specifically designed for individuals employed by or seeking employment in public works organizations in San Diego County. Introduces management and administrative concepts to field staff. Classes are designed to prepare Lead Workers for front line supervisory positions in the Public Works field. This is a cooperative program offered by Citrus, Palomar and Santiago Canyon Colleges in collaboration with and approved by the Maintenance Superintendents Association and American Public Works Association.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

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<td>Public Works Inspection</td>
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<tr>
<td>PWM 55</td>
<td>Public Works Administration</td>
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<tr>
<td>PWM 57</td>
<td>Plan Interpretation and Cost Estimating</td>
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<td>PWM/WTE/</td>
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<td>WWIT 60</td>
<td>Supervision</td>
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<tr>
<td>CSIT 120</td>
<td>Computer Applications</td>
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See Catalog addendum at http://www.palomar.edu/catalog
### Electives (Select 2 courses)

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<tr>
<th>Course Code</th>
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<td>BUS 125</td>
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<td>BUS 138</td>
<td>Business Ethics</td>
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<td>MATH 60</td>
<td>Intermediate Algebra</td>
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<tr>
<td>SPCH 115</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS 27 - 33**

### COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

**PWM 50** Introduction to Public Works (3)

3 hours lecture

Designed by the American Public Works and Maintenance Superintendents Associations in order to prepare public works and maintenance workers for lead and supervisory positions. Students will receive an introduction to techniques; materials and equipment used in public works, maintenance and repair projects.

**PWM 51** Street Construction and Maintenance (3)

3 hours lecture

**Recommended preparation:** MATH 15

Provides instruction on street construction and maintenance; including materials and methods, specifications, records and cost accounting systems, revenue sources and budget preparation. Other subjects include safety, drainage, equipment records and specifications, as well as public relations. Codes and industry standards that pertain to improvements and repair will be reviewed.

**PWM 52** Asphalt and Portland Cement (3)

3 hours lecture

**Recommended preparation:** MATH 15

Provides instruction on the recommended procedures, practices, and testing criteria used by the Asphalt Institute highlighting local city and county asphalt requirements. Content includes specifications for roads, runway floors, and hydraulic structures and Portland Cement concrete design and uses. Includes transporting, placing, curing, and testing concrete as well as application and construction methods employed.

**PWM 53** Public Works Inspection (3)

3 hours lecture

**Recommended preparation:** MATH 15

Provides an overview of the inspector's role and responsibilities as it relates to a project. The student will be given the necessary information and training necessary for entry level inspection responsibilities. The course will apply to construction of municipal infrastructure and civil engineering type projects.

**PWM 55** Public Works Administration (3)

3 hours lecture

Provides an introduction to the organizational concepts used by the Public Works Department. Content includes typical organization, management concepts, political considerations, planning, financial management and public relations.

**PWM 57** Plan Interpretation and Cost Estimating (3)

3 hours lecture

**Recommended preparation:** MATH 15

Provides a basic introduction into reading and interpreting construction plans related to public works and street improvement projects. Will provide the student with the fundamental understanding of how construction plans relate to actual construction and how to use the plans to determine the quantity of materials needed to complete the work proposed on the plans and to estimate a cost for the completion of the work.

### PWM 60 Supervision (3)

3 hours lecture

**Note:** Cross listed as WWT 60

Supervisory aspects of public agencies including organization, decision making, coordination, communication, and public relations. Personnel supervision including coaching, training, evaluation, discipline, team building, morale, and grievances. Safety programs and encouraging safe conditions, actions and attitudes.

### Reading (READ)

Contact Reading Services for further information.

760-744-1150, ext. 2568

Office: H-II-19C

### COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.

Courses numbered under 100 are not intended for transfer credit.

**READ 30** Fundamental Reading Skills (1, 2)

3 or 6 hours laboratory

**Note:** Open Entry/Open Exit; Pass/No Pass grading only

Non-degree Applicable

An individualized computer-assisted instruction program based on in-depth testing, assessment, prescription, and instruction for the improvement of students' vocabulary and reading comprehension. Emphasis is placed on reading skills and their application to college and life skills materials.

**READ 31** Developmental Reading Skills (2)

1 hour lecture - 3 hours laboratory

**Note:** Open entry/Open exit

A computer-assisted instruction program based on individual student assessment to improve vocabulary and literal reading comprehension skills. Weekly lectures will focus on specific vocabulary development and basic comprehension strategies.

**READ 32** Intermediate Reading Skills (2)

1 hour lecture - 3 hours laboratory

**Note:** Open entry/Open exit

An individualized computer-assisted instruction program based on individual student assessment to improve students' command of denotive and connotative vocabulary, and literal and analytical reading comprehension skills. Weekly lectures will focus on the development of figurative vocabulary and the transition between literal and analytical comprehension skills.

**READ 47** Reading Topics (5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Non-degree Applicable

Topics in Reading. See class schedule for specific topic covered. Course title will designate subject covered.

**READ 49** Developing College Reading Skills (4)

3 hours lecture - 3 hours laboratory

Designed to improve students' vocabulary and comprehension skills in independent and technical materials including novels and textbooks or technical articles. Using a variety of instructional techniques and individualized practice, students will remedy difficulties with comprehension, vocabulary, and fluency with a goal of reading at or above the 10th grade level.
READ 110  Power Reading  (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Intended for students who require improved reading skills in order to succeed in college courses. This course provides a review of basic reading skills and a practice in reading extensively and intensively. It is designed to help develop comprehension and enjoyment in reading. Students also read and respond to a variety of materials, including non-fiction and textbook assignments, applying strategies for reading difficult material to facilitate literal and affective comprehension as well as to improve critical thinking skills. In addition, students develop writing, vocabulary, discussion, and study skills.

READ 115  Vocabulary Enhancement  (2)
2 hours lecture
Transfer acceptability: CSU
Provides techniques to increase the precision and scope of language for everyday use. Emphasis is on the development of all aspects of college-level vocabulary.

READ 120  Critical Reading  (3)
3 hours lecture
Recommended preparation: READ 110
Transfer acceptability: CSU
Conceptual examination and application of critical reading, critical thinking, analysis and logical reasoning in multi-discipline and multi-cultural academic sources. Emphasis on advanced critical reading, logical reasoning/thinking, reflective judgment, and problem-solving skills that will lead to the ability to interpret, analyze, critically evaluate, and advocate ideas.

READ 197  Reading Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Reading. See Class Schedule for specific topic offered. Course title will designate subject covered.

Radio and Television
See Digital Broadcast Arts

Real Estate (RE)
Contact the Business Administration Department for further information.
760-744-1150, ext. 2488
Office: MD-341
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Real Estate Appraisal License Preparation (CP)
Real Estate Appraiser Trainee license is required of individuals who are to be employed as appraisers under the control and supervision of licensed or certified real estate appraisers. A license may be obtained by a person who does not immediately intend to be employed by an appraiser. However, no real estate appraisal activity may be performed unless the trainee is in the employ of a licensed or certified real estate appraiser.
An applicant to take the Real Estate Appraisal examination must:
1. Be at least 18 years of age or older.
2. Meet minimum educational requirements: Applicants for the Trainee or Residential license must provide evidence of successful completion of 150 hours of real estate appraisal education, including 15 hours of USPAP (Uniform Standards of Professional Appraisal Practice). Applicants for the Certified Residential license must provide proof of completion of 200 hours of real estate appraisal education (including 15 hours of USPAP). Palomar College does NOT provide further training that will prepare a student to take the Certified General License.
3. Have the appropriate experience: No experience is required before obtaining the Real Estate Appraiser Trainee license. 2,000 hours and encompassing no less than 12 months of acceptable appraisal experience is required before obtaining the residential license. 2,500 hours and encompassing no less than 2.5 years of acceptable appraisal experience is required before obtaining the Certified Residential License. This program is designed to meet the educational requirements of two licensing levels of the Office of Real Estate Appraisers (Trainee, and Residential). RE 105, RE 115 or RE 130 is recommended to meet the additional requirements of the Certified Residential License. The program does NOT meet the requirements to prepare a student for the Certified General License.

CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE 100  Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RE 110  Real Estate Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>RE 111  Advanced Real Estate Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>RE 115  Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>RE 150  Residential Appraisal</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 15

AQB/OREA Real Property Appraiser Qualifying Criteria
(Effective January 1, 2006)

<table>
<thead>
<tr>
<th>OREA License Levels</th>
<th>Basic Education Requirements</th>
<th>College Level Requirements</th>
<th>Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trainee (AT)</td>
<td>150 Hours</td>
<td>N/A</td>
<td>2,000 Hours (accumulated over at least a 12-month period)</td>
</tr>
<tr>
<td>Residential</td>
<td>150 Hours</td>
<td>N/A</td>
<td>2,500 Hours (accumulated over at least a 30-month period)</td>
</tr>
<tr>
<td>Certified Residential (AR)</td>
<td>200 Hours</td>
<td>Associate Degree*</td>
<td>3,000 Hours (accumulated over at least a 30-month period)</td>
</tr>
</tbody>
</table>

*In lieu of the Associate Degree, an applicant can complete 21 college semester credits in courses covering: English Composition; Principles of Economics (Micro or Macro); Finance, Algebra, Geometry, or higher mathematics; Statistics; Introduction to Computers; and Business or Real Estate Law.

**In lieu of the Bachelor’s Degree, an applicant can complete 30 college semester credits in courses covering: English Composition; Micro Economics; Macro Economics; Finance, Algebra, Geometry, or higher mathematics; Statistics; Introduction to Computers; Business or Real Estate Law; and two elective courses in accounting, geography, ag-economics, business management, or real estate.
Real Estate Broker License Preparation (AS, CA)

Requirements to apply for a Real Estate Broker’s License:
To obtain a real estate broker license, you must first qualify for and pass a written Bureau of Real Estate examination.

GENERAL REQUIREMENTS

- Age: You must be 18 years of age or older to be issued a license.
- Residence: Proof of Legal Presence in the United States is required. If you are not a California resident, go to www.brea.ca.gov for more information.
- Honesty: Applicants must be honest and truthful. Conviction of a crime may result in the denial of a license.
- Experience: A minimum of two years full-time licensed salesperson experience within the last five years or the equivalent is required. For further information, see Documenting Experience Requirements for the Broker Examination at www.brea.ca.gov.

Continuing education offerings do not satisfy the college-level course requirements for this examination.

Members of the California State Bar are statutorily exempt from the college-level course requirements but still need to demonstrate they have satisfied the two years full-time licensed salesperson experience within the last five years or the equivalent is required. For further information, see Documenting Experience Requirements for the Broker Examination at www.brea.ca.gov.

Copies of official transcripts are generally acceptable evidence of completed courses. Applicants who have completed the eight college-level courses statutorily required for the broker examination and license are eligible to take the salesperson examination without providing further evidence of education or experience.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
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<tr>
<th>Course</th>
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<td>RE 105</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RE 110</td>
<td>Real Estate Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>RE 115</td>
<td>Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>RE 120</td>
<td>Legal Aspects of Real Estate</td>
<td>3</td>
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<tr>
<td>ACCT 201</td>
<td>Financial Accounting</td>
<td>4</td>
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<tr>
<td>RE 130</td>
<td>Real Estate Economics</td>
<td>3</td>
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</table>

Electives (Select 6 or 9 units)

If ACCT 201 and RE 130 are both completed, only 6 units are required from the electives below:

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BUS 115</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUS 117</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>RE 140</td>
<td>Introduction to Property Management</td>
<td>3</td>
</tr>
<tr>
<td>RE 155</td>
<td>Escrow and the Title Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 24 - 28

Real Estate Salesperson License Preparation (CP)

A Real Estate Salesperson license is required of individuals who are to be employed as salespersons under the control and supervision of a licensed real estate broker.

Minimum Requirements to qualify to take the Real Estate Salesperson examination:

1. Age – 18 years of age or older.
2. Residence – Must be a legal resident of California.
3. Honesty – License applicants must be honest and truthful.
4. Education – Applicants must provide evidence of successful completion of three courses: Real Estate Principles, Real Estate Practice, and one additional elective course listed below. Completion of the Real Estate Salesperson License Preparation Certificate satisfies the California Department of Real Estate-mandated pre-license requirements.

This program is designed to prepare the student for an entry-level position in the Real Estate sales field.

CERTIFICATE OF PROFICIENCY

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Electives (Select 3-7 units)

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<td>Business Law</td>
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</table>
| or
| BUS 117      | Legal Environment of Business            | 3     |
| RE 105       | Real Estate Finance                      | 3     |
| RE 110       | Real Estate Appraisal                    | 3     |
| RE 120       | Legal Aspects of Real Estate             | 3     |
| RE 130       | Real Estate Economics                    | 3     |
| RE 140       | Introduction to Property Management      | 3     |

TOTAL UNITS 9 - 13

COURSE OFFERINGS

RE 100 Real Estate Principles

3 hours lecture

Note: This course is one of three mandatory classes required to be completed before the Real Estate Salesperson Exam can be taken. A grade of ‘C’ must be earned in this course before a Real Estate Salesperson License will be awarded.

Transfer acceptability: CSU

Basic laws and principles of California real estate. Gives understanding, background, and terminology necessary for advanced study in specialized courses.

RE 105 Real Estate Finance

3 hours lecture

Recommended preparation: A minimum grade of ‘C’ in RE 100 or real estate license

Transfer acceptability: CSU

Analysis of real estate financing, including lending policies and problems in financing transactions in residential, apartment, commercial, special purpose properties, and land. Conventional and governmental programs emphasized.

RE 110 Real Estate Appraisal

3 hours lecture

Recommended preparation: RE 100 or real estate license

Transfer acceptability: CSU

An introductory course covering the purposes of appraisals, the appraisal process, and the different approaches, methods, and techniques used to determine the value of various types of property. Emphasis will be on residential and single unit property.
RE 111 Advanced Real Estate Appraisal (3)
3 hours lecture
Recommended preparation: RE 110 or 130
Transfer acceptability: CSU
Emphasis will be on the residential sales comparison and income approaches. Covers valuation principles and procedures applicable to both approaches. Includes fifteen hours of the Uniform Standards of Professional Appraisal Practice, required of students applying for the real estate residential and certified residential exam.

RE 115 Real Estate Practice (3)
3 hours lecture
Transfer acceptability: CSU
Note: This course is one of three state mandatory classes required to be completed before the Real Estate Salesperson Exam can be taken.
Day to day operations in real estate roles and brokerage, including listing, prospecting, advertising, finance, taxation, investing, sales techniques and escrow. Class will include professional behavior and ethics.

RE 120 Legal Aspects of Real Estate (3)
3 hours lecture
Recommended preparation: A minimum grade of ‘C’ in RE 100 or real estate license
Transfer acceptability: CSU
A study of California real estate law, including rights incident to property ownerships and management, agency, contracts, and application to real estate transfer, conveyancing, probate proceedings, trust deeds and foreclosure, as well as recent legislation governing real estate transactions. Applies toward educational requirement of broker’s examination.

RE 130 Real Estate Economics (3)
3 hours lecture
Recommended preparation: A minimum grade of ‘C’ in RE 100 or real estate license
Transfer acceptability: CSU
Deals with those trends and factors which affect the value of real estate; the nature and classification of land economics, the development of property, construction and sub division, economic values and real estate evaluation; real estate cycles and business fluctuations, residential market trends, and real property trends.

RE 140 Introduction to Property Management (3)
3 hours lecture
Transfer acceptability: CSU
A practical approach to the principles and practices of managing income properties, including leasing, collections, and rent schedule; budget and purchasing, market economics; evictions; maintenance; taxation; and record keeping.

RE 150 Residential Appraisal (3)
3 hours lecture
Recommended preparation: RE 100 and RE 111
Transfer acceptability: CSU
Provides specialized training for licensed real estate salespersons, brokers, and appraisers in the methods and techniques used to evaluate residential property.

RE 155 Escrow and the Title Procedures (3)
3 hours lecture
Recommended preparation: RE 100 or real estate license
Transfer acceptability: CSU
Escrow procedures including the processing and close of sale and loan escrows, the familiarizations and drawing of documents, prorations, title searches, title reports, and other details pertinent to efficient escrow proceedings.

RE 157 Real Estate Topics (0.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Real Estate. See Class Schedule for specific topic offered. Course title will designate subject covered.

Recreation (REC)
Contact the Department of Health, Kinesiology and Recreation Management for further information.
760-744-1150, ext. 2462
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
For transfer information, consult a Palomar College Counselor.

Programs of Study

Outdoor Leadership (AA, CA)
Provides the skills necessary for work as a leader in outdoor activities for federal, state, municipal, and private recreational agencies.

A.A. Degree Major or Certificate of Achievement

Program Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 100 Introduction To Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CE 100 Cooperative Education</td>
<td>3 - 4</td>
</tr>
<tr>
<td>EME 100/HE 104 Emergency Medical Responder</td>
<td>3</td>
</tr>
<tr>
<td>HE 100 Health Education and Fitness Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>REC 110 Community Recreation</td>
<td>3</td>
</tr>
</tbody>
</table>

Group I (Select 1 of the following courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 206</td>
<td>Coaching of Women's Team Sports</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 229</td>
<td>Lifeguarding</td>
<td>1.5</td>
</tr>
<tr>
<td>KINE 230</td>
<td>Lifeguarding and Emergency Response</td>
<td>3</td>
</tr>
</tbody>
</table>

Group II (Select 1 of the following courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 100L</td>
<td>Health Performance Lab</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 114A</td>
<td>Beginning Walkfit</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 114B</td>
<td>Intermediate Walkfit</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 114C</td>
<td>Advanced Walkfit</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 128A</td>
<td>Wellness Modalities- Cardio</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 128B</td>
<td>Wellness Modalities-Muscular</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 128C</td>
<td>Wellness Modalities- Functional</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 128D</td>
<td>Wellness Modalities- Periodization</td>
<td>1 - 2</td>
</tr>
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</table>

Group III (Select 1 of the following courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 150A</td>
<td>Beginning Weight Training</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 150B</td>
<td>Intermediate Weight Training- Strength Training for Total Fitness</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 150C</td>
<td>Advanced Weight Training- Power Lifting and Plyometrics Training</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 204A</td>
<td>Off Season Sports Conditioning I</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 204B</td>
<td>Off Season Conditioning II</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 205A</td>
<td>In Season Sports Conditioning I</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 205B</td>
<td>In Season Conditioning II-Fine Motor Skills Maintenance</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>

TOTAL UNITS 18 - 23
Recreation Agency Leader (AA, CA)

Provides the skills necessary for work as a leader in a municipal or private recreation program.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 100</td>
<td>Introduction To Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 105</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>CE 100</td>
<td>Cooperative Education</td>
<td>1 - 4</td>
</tr>
<tr>
<td>EME 100/HE 104</td>
<td>Emergency Medical Responder</td>
<td>3</td>
</tr>
<tr>
<td>HE 100</td>
<td>Health Education and Fitness Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>REC 110</td>
<td>Community Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 120</td>
<td>Recreational Team Sports</td>
<td>2</td>
</tr>
</tbody>
</table>

Group I (Select 1 of the following courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 206</td>
<td>Coaching of Women’s Team Sports</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 229</td>
<td>Lifeguarding</td>
<td>1.5</td>
</tr>
<tr>
<td>KINE 230</td>
<td>Lifeguarding and Emergency Response</td>
<td>3</td>
</tr>
<tr>
<td>MUS 197</td>
<td>Topics in Music</td>
<td>0.5 - 3</td>
</tr>
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</table>

Group II (Select 1 of the following courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 100L</td>
<td>Health Performance Lab</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 130</td>
<td>Individualized Fitness Exercise</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>

Group III (Select 1 of the following courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 170A</td>
<td>Team Sports - Baseball Strategies</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 170C</td>
<td>Team Sports- Basketball Strategies</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 170E</td>
<td>Team Sports- Football Strategies</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 170G</td>
<td>Team Sports- Soccer Strategies</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 170K</td>
<td>Team Sports-Volleyball Strategies</td>
<td>1 - 2</td>
</tr>
<tr>
<td>KINE 175A</td>
<td>Psychology of Specific Athletic Competition</td>
<td>2</td>
</tr>
<tr>
<td>KINE 175B</td>
<td>Psychology of Specific Athletic Competition</td>
<td>2</td>
</tr>
<tr>
<td>KINE 175C</td>
<td>Psychology of Specific Athletic Competition</td>
<td>2</td>
</tr>
<tr>
<td>KINE 175D</td>
<td>Psychology of Specific Athletic Competition</td>
<td>2</td>
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</tbody>
</table>

Group IV (Select 1 of the following courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 210</td>
<td>Professional Prep for Football - Theory and Mental Preparation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 210L</td>
<td>Professional Prep for Football Lab- Biomechanic Application</td>
<td>1 - 1.5</td>
</tr>
<tr>
<td>KINE 211</td>
<td>Professional Prep for Basketball - Theory and Mental Preparation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 211L</td>
<td>Professional Preparation for Basketball Lab</td>
<td>1 - 1.5</td>
</tr>
<tr>
<td>KINE 212</td>
<td>Professional Prep for Baseball- Theory and Mental Preparation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 212L</td>
<td>Professional Prep for Baseball - Biomechanic Application</td>
<td>1 - 1.5</td>
</tr>
<tr>
<td>KINE 215</td>
<td>Professional Prep for Wrestling - Theory and Mental Preparation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 215L</td>
<td>Professional Prep Wrestling Lab - Biomechanic Application</td>
<td>1 - 1.5</td>
</tr>
<tr>
<td>KINE 216</td>
<td>Professional Prep for Golf- Theory and Mental Preparation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 216L</td>
<td>Professional Prep for Golf Lab - Biomechanic Application</td>
<td>1 - 1.5</td>
</tr>
<tr>
<td>KINE 217</td>
<td>Professional Prep Tennis - Theory and Mental Preparation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 217L</td>
<td>Professional Prep Tennis Lab - Biomechanic Application</td>
<td>1 - 1.5</td>
</tr>
</tbody>
</table>

TOTAL UNITS 21.5 - 31

COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 110</td>
<td>Community Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 115</td>
<td>Recreational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>REC 120</td>
<td>Recreational Team Sports</td>
<td>2</td>
</tr>
</tbody>
</table>

Religious Studies (RS)

See also American Indian Studies, Anthropology, History, Judaic Studies, Philosophy

Registered Dental Assisting

See Dental Assisting

COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 101</td>
<td>World Religions</td>
<td>3</td>
</tr>
<tr>
<td>RS 102</td>
<td>Religion in American History</td>
<td>3</td>
</tr>
<tr>
<td>RS 103</td>
<td>Religion and American Political Institutions</td>
<td>3</td>
</tr>
</tbody>
</table>

Transfer acceptability: CSU; UC pending

Study of relations between religion, religious communities, and political institutions in the United States and California. The course examines political institutions and processes under the U.S. and California Constitutions, the influence of religion and religious communities on these institutions and processes, and the influence of these institutions and processes on religious communities, especially related to the rights and obligations of citizenship. Topics of study include freedom of religion, civil rights and citizenship, the political and religious philosophies of the framers of the U.S. Constitution, Constitutional documents as sources of civil religion, religion and immigration, separation of church and state, religion in public education, war and religion.
### Religious Studies

#### RS 104  Introduction to Buddhism  
3 hours lecture  
**Transfer acceptability:** CSU; UC  
Introduction to the core practices, beliefs, institutions, and characteristics of Buddhist communities.

#### RS 105  Ritual/Symbol/Myth: Ways of Understanding Religion  
3 hours lecture  
**Transfer acceptability:** CSU; UC  
The course introduces students to the religious dimensions of ritual, symbol, and myth in order to explore the nature of religion in traditional settings and in the popular cultures of the present.

#### RS 106  Introduction to Judaism I  
3 hours lecture  
**Note:** Cross listed as JS 106  
**Transfer acceptability:** CSU; UC  
The philosophy, religion and ethnic culture of the Jewish people from 2000 B.C. to the present; their role in the ancient Near East; relationships in the Western World from the Greco Roman period to the post World War II era; creation and development of the state of Israel; cultural, religious, and political impact on America and the world community.

#### RS 107  Introduction to Judaism II – Culture  
3 hours lecture  
**Note:** Cross listed as JS 107  
**Transfer acceptability:** CSU; UC  
A survey of movements, institutions, and communities in the history of Christianity from the first century to the twentieth century. Concentrates on socio-political influences, contexts, and consequences related to Christian history.

#### RS 108  History of Christianity  
3 hours lecture  
**Transfer acceptability:** CSU; UC  
A survey of the cultural and historical roots of the Jewish people from 2000 B.C. to the present; their role in the ancient Near East; relationships in the Western World from the Greco Roman period to the post World War II era; creation and development of the state of Israel; cultural, religious, and political impact on America and the world community.

#### RS 109  Religion in America  
3 hours lecture  
**Transfer acceptability:** CSU; UC  
Introduces students to core practices, beliefs, and institutions of religions in the United States. The course also focuses on the interactions of religious communities with national culture of the United States, particularly in regards to social factors of race, ethnicity, class, age, and gender. Study concentrates on “religion” associated with Native Americans, Asian Americans, Latinos, African Americans, Jewish communities, Roman Catholics, Protestants, Muslims, Buddhists, and a variety of others.

#### RS 124  Islamic Cultures and Traditions  
3 hours lecture  
**Note:** Cross listed as MCS 124  
**Transfer acceptability:** CSU; UC  
An introductory course designed for students with a general interest in the Islamic world, including its history and cultural traditions. Examines the main social, traditional and legal institutions of Islam.

#### RS 197  Religious Studies Topics  
(1-3)  
Units awarded in topics courses are dependent upon the number of lecture hours required of the student. Refer to Class Schedule.  
**Transfer acceptability:** CSU; UC - Credit determined by UC upon review of course syllabus.

### Secretarial

**See Business (BUS)**

### Sign Language

**See American Sign Language**

### Sociology (SOC)

**See also American Indian Studies, Africana Studies**

#### Chico Studies

Contact the Behavioral Sciences Department for further information.  
760-744-1150, ext. 2329  
Office: MD-241  
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

#### Sociology (AA-T)

The Associate in Arts in Sociology for Transfer is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Sociology. Sociology is the study of social behavior and human groups and focuses on social relationships, how those relationships influence people's behavior and beliefs, and how societies develop and change. Students will learn the main theoretical approaches in sociology that explain society on both a micro level through the study of social interaction, and on a macro scale through the study of large social institutions. The curriculum for the Associate in Arts in Sociology for Transfer is intended to develop critical thinking skills, to explore the diversity of our social world, and to adequately prepare students for transfer to an upper division program in Sociology. The Associate in Arts in Sociology for Transfer allows students the opportunity to meet the lower division transfer requirements for a major in Sociology.

Pursuant to SB1440, the following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

   A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

   B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

### AA-T Transfer Major

#### Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 100</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC 110</td>
<td>Social Problems</td>
</tr>
<tr>
<td>SOC/PSYC 205</td>
<td>Statistics for the Behavioral Sciences</td>
</tr>
</tbody>
</table>

#### List A (Select 2 courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC/PSYC 105</td>
<td>Marriage, Family and Intimate Relationships</td>
</tr>
<tr>
<td>SOC 135</td>
<td>Gender and Society</td>
</tr>
<tr>
<td>SOC/AMS/ MCS 200</td>
<td>Race, Class, and Ethnic Groups in America</td>
</tr>
</tbody>
</table>

See Catalog addendum at http://www.palomar.edu/catalog
List B (Any Course Not already completed from list A or
One course from List B)
SOC/PSYC 125 Human Sexuality 3
SOC 115 Introduction to Women's Studies 3
SOC 130 Introduction to Sociology of Health 3
SOC/PSYC 145 Psychology and Sociology of Aging 3
SOC 165 Self and Society 3
SOC 170 Introduction to Justice Studies 3

TOTAL UNITS 19

*COURSE OFFERINGS

SOC 100 Introduction to Sociology (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID SOCI 110
A study of the principles and problems pertaining to group behavior, the relationships among human beings, the development and nature of institutions, and the structure of society.

SOC 105 Marriage, Family, and Intimate Relationships (3)
3 hours lecture
Note: Cross listed as PSYC 105
Transfer acceptability: CSU; UC
C-ID SOCI 130
A study of the psychology and sociology of the family and intimate relationships. Emphasizes factors that enhance interpersonal relationships. Topics include love, marital choice, communication, conflict, and changing models of the family. Examines cross-cultural and historical factors that impact the family as a social institution and the impact of gender, race and ethnicity, social class, age, and sexual orientation on family organization.

SOC 110 Social Problems (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID SOCI 115
Identification and analysis of contemporary social problems in the United States, with emphasis on the sociological factors involved. Topics include poverty and economic inequality; gender inequality; racial and ethnic inequality; problems in the family, government, education, and the economy; crime; drug use; warfare and violence, among others. A critical evaluation of the causes and solutions.

SOC 115 Introduction to Women's Studies (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID SOCI 115
The study of the position of women in American society from a sociological and cultural perspective. Topics to be studied include the theoretical approaches to studying gender; the impact of race and ethnicity, class, nationality, and sexual orientation on women's lives; cross-cultural variations in gender roles; the socialization of women; women's role in the major social institutions -- the family, education, the political system, religion, the economy, and the mass media; violence against women; and feminism as a social movement.

SOC 125 Human Sexuality (3)
3 hours lecture
Note: Cross listed as PSYC 125
Transfer acceptability: CSU; UC
C-ID PSY 130
Survey of topics pertinent to an understanding of the development of human sexuality. Emphasis on biological, psychological, and cultural determinants of sexual behavior. Current sex norms and various aspects of interpersonal and individual sexual adjustment.

SOC 130 Introduction to Sociology of Health (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID SOCI 140
This course presents a broad introduction to sociological concepts and ideas related to the study of health and medicine in the United States. Emphasis will be on understanding the relationship between social factors and health, the cultural meanings associated with health and illness, the social behavior of health care personnel and people who utilize health care, the political controversies surrounding health care, and the structure of social institutions that form the health care industry. Throughout the course, there will be a focus on culture (African Americans, Latinos/Latinas), gender, age, socioeconomic status, sexual orientation and disabilities and how these factors influence the experience of health and illness.

SOC 135 Gender and Society (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID SOCI 140
What does it mean to be a man or a woman in today's society? This course is an introduction to the study of gender and society. Its focus will be on changes and continuities in the gender roles of men and women and on the role of gender as an organizing principle of contemporary social life. We will examine theoretical approaches to explaining gender, the impact of race, ethnicity, social class, and sexual orientation on conceptions of gender and the impact of gender on interactions in everyday life. As we explore these themes, we will study how culture, the family, the economy, the political system, mass media and the legal system have shaped and in turn are shaped by gender roles.

SOC 140 Introduction to Psychological and Social Services (4)
3 hours lecture - 3 hours laboratory
Note: Cross listed as AODS 140/PSYC 140
Transfer acceptability: CSU
C-ID PSYC 140
Supervised internship in a human service agency or an alcohol and other drug treatment facility. An overview of the field of human services, including alcohol and other drug treatment. The roles of psychologists, sociologists, social workers, family therapists, social service assistants and addiction counselors are compared and contrasted, and the issues they deal with are described. Through cooperative efforts of provider agencies, the instructor, and the student, the skills utilized for entry-level employment are observed, practiced, and evaluated under supervision.

SOC 145 Psychology and Sociology of Aging (3)
3 hours lecture
Note: Cross listed as PSYC 145
Transfer acceptability: CSU
C-ID PSYC 145
A multi disciplinary approach to the field of gerontology; historical, demographic, psychological, and sociological aspects of aging.

SOC 150 Introduction to Alcohol and Other Drug Studies (3)
3 hours lecture
Note: Cross listed as AODS 150/PSYC 150
Transfer acceptability: CSU
C-ID AODS 150
Examines alcohol, tobacco and psychoactive drugs in society. Biological, psychological and socio-cultural factors of drug abuse and dependence will be explored. The impact of addiction on families and society; contemporary treatment techniques, and the addiction counseling profession will be covered.

SOC 155 The Physiology and Pharmacology of Psychoactive Drugs (3)
3 hours lecture
Note: Cross listed as AODS 155/PSYC 155
Transfer acceptability: CSU
C-ID AODS 155
This course will examine how psychoactive drugs affect the nervous system. Ways of classifying drugs will be identified including the processes of physical and psychological dependence, tolerance, withdrawal, and genetic predispositions. Temporary and long-term affective, behavioral, cognitive, biological, and social consequences of psychoactive drug use will be explored, including disorders such as Korsakoff's syndrome and other nutritional deficiencies.
This course will review historical and contemporary approaches for chemical dependency, including prevention, intervention, and education. It will analyze the progression of substance abuse and chemical dependency disorders and will evaluate types of prevention, education, and intervention strategies.

SOC 150 Self and Society (3) 3 hours lecture
Transfer acceptability: CSU; UC

This course explores how behaviors, thoughts, and emotions of individuals are created and modified by the social and cultural conditions in which they live. The framework is a theoretical perspective called symbolic interaction. Its focus is on how interactional dynamics shape our behavior and our sense of who we are and what we can do. We use a multicultural approach to understanding the social construction of the self in society. We will analyze issues of identity and equality as they relate to social class, disability, sexual orientation, and among people of color (specifically African Americans and Latinos/Latinas).

SOC 170 Introduction to Justice Studies (3) 3 hours lecture
Transfer Acceptability: CSU/UC

This course is an introduction to the interdisciplinary field of Justice Studies. An analysis of justice will be explored using sociological, philosophical, historical, and legal perspectives and methodologies. The course will emphasize social justice issues in the United States, with an emphasis on systems of inequality that affect people of color, women and other marginalized groups.

SOC 175 Introduction to LBGTQI Studies (3) 3 hours lecture
Transfer acceptability: CSU; UC pending

This multicultural introductory course examines a range of gay, lesbian, bisexual, transgender, intersex and queer issues from a multicultural perspective. This interdisciplinary course introduces students to contemporary theories and research findings using a sociological lens to focus on social institutions, history, politics, social movements and resistance. The course explores biological and environmental impacts on identity, equity, equality and inclusion, privilege, disadvantage, queer activism and the diverse racial, ethnic, social class and gendered experiences of sexuality. The class will focus strongly on representations in literature, art and popular culture, from a wide variety of multicultural perspectives, in particular perspectives from people of color and those from marginalized racial, ethnic and other groups that span the diverse experiences of the LBGTQI community.

SOC 197 Special Topics in Sociology (1, 2, 3) 1, 2, or 3 hours lecture
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

Current topics in sociology will be discussed in lecture or seminar formats. Issues in such areas as deviance, stratification, demography, gender roles, death and dying, new immigrant groups, and others will be analyzed in cultural context from various theoretical perspectives. Content will vary from semester to semester.

SOC 200 Race, Class, and Ethnic Groups in America (3) 3 hours lecture
Note: Cross listed as AMS200/MCS 200
Transfer acceptability: CSU; UC

This course is designed to introduce the topics of intergroup relations in general to superordinate-subordinate relations in particular, as exemplified in various racial, ethnic, social class, and cultural groups. Emphasis is primarily on contemporary relations in the United States, although a comparative perspective is also offered.

SOC 205 Statistics for the Behavioral Sciences (4) 4 hours lecture
Prerequisite: A minimum grade of "C" in MATH 56 or 60 or eligibility determined through the math placement process
Note: Cross listed as PSYC 205
Transfer acceptability: CSU/UC – MATH 120 and PSYC/SOC 205 combined: maximum credit, one course

Quantitative and qualitative methods as applied to behavioral science data. Frequency distributions, measures of central tendency, variability, hypothesis testing, measures of probability and significance, correlation, regression, and inferential statistics. Also included are data entry, graphing, statistical analysis, and interpretation of data using word processing, spreadsheet, and statistical software.

SOC 250 Group Leadership and Process (3) 3 hours lecture
Note: Cross listed as AODS 250/PSYC 250

This course reviews the principles and practice of case management in addiction treatment including the processes of intake, screening, assessment, treatment planning, referral, and documentation. Professional and ethical codes of conduct and behavior are also reviewed and emphasized.

SOC 255 Case Management, Law and Ethics (3) 3 hours lecture
Note: Cross listed as AODS 255/PSYC 255

This course is designed to explore methods of assisting family members and others to understand and to cope with the alcohol and drug abuse of alcoholics and addicts. Several family therapy modalities will be explored. The approach will be experiential in format and students will participate in exercises that lead to the development of these skills.

SOC 260 Chemical Dependency Family Counseling (3) 3 hours lecture
Note: Cross listed as AODS 260/PSYC 260

Supervised internship in a human service agency or an alcohol and other drug treatment facility. The student intern will have an opportunity to observe human service providers working with clients in agency settings. Ethical guidelines for helping professions, developing cultural competence, stages of change and motivational interviewing as a helping style are discussed. Interns practice interviewing skills for increasing motivation for positive change.

SOC 298 Directed Field Experience I (5) 3 hours lecture - 6 hours laboratory
Note: Cross listed as AODS 298/PSYC 298

Supervised internship in a human service agency or an alcohol and other drug treatment facility. The student intern will have an opportunity to observe human service providers working with clients in agency settings. Ethical guidelines for helping professions, developing cultural competence, stages of change and motivational interviewing as a helping style are discussed. Interns practice interviewing skills for increasing motivation for positive change.

SOC 299 Directed Field Experience II (6) 3 hours lecture - 9 hours laboratory
Prerequisite: A minimum grade of "C" in AODS 140/SOC 140/PSYC 140 or AODS 298/SOC 298/PSYC 298 and AODS/SOC/PSYC 250/250 and AODS 255/PSYC 255

Supervised internship in an alcohol and other drug treatment facility. This course emphasizes advanced concepts in chemical dependency. Students refine their skills for the 12 core functions of effective clinical practice and compile a professional portfolio in preparation for the state certifying written exam. This course meets the 45-hour supervised practicum requirement for the California Certification Board of Alcohol and Drug Counselors.
Spanish (SPAN)

Contact the World Languages Department for further information.
760-744-1150, ext. 2390
Office: H-201
Associate Degree, Certificate of Achievement and Certificate of Proficiency
requirements are listed in Section 6 (green pages).
Associate Degrees for transfer IGTC and CSUGE requirements are listed in
Section 7 (green pages).

PROGRAM OF STUDY

Spanish (AA-T)

This degree will provide required course work for students majoring or
minoring in Spanish. In addition, completing the course work will meet the
foreign language competency requirements at many colleges and universities.
Students may receive humanities credit on general education patterns for both
the CSU and UC systems. It will also provide instruction for students seeking
foreign language skills for personal development.

Pursuant to SB1440, the following completion requirements must be met:

“(1) Completion of 60 semester units or 90 quarter units that are eligible for
transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the
California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of
emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0.”

ADTs also require that students must earn A C or better in all courses required
for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade
for courses in the major.

AA-T TRANSFER MAJOR

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 101</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 201</td>
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<tr>
<td>SPAN 211</td>
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<tr>
<td>SPAN 202</td>
<td>5</td>
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<tr>
<td>SPAN 212</td>
<td>5</td>
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<tr>
<td>SPAN 235</td>
<td>3</td>
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</tbody>
</table>

TOTAL UNITS 23

All degree requirements must be satisfied, and no other substitutions are
permitted. Students must complete SPAN 235 at Palomar College, unless
otherwise approved by the department chair or designated department faculty
member.

COURSE OFFERINGS

For students who have completed foreign language course work at the high
school level, and need clarification regarding placement in college level course
work, contact the Counseling Center. Universities have varying policies
regarding the granting of transfer credit when there is a combination of high
school and college level course work.

An activity may be taken four times for credit. Activity is defined to include all
ability levels (e.g., A student may take a total of only four Conversation courses
for credit).

SPAN 101  Spanish I  (5)
5 hours lecture - 1 hour laboratory
Note: Not open to students with credit for SPAN 101B.
Transfer acceptability: CSU; UC
First semester of Spanish. A study of the Spanish language and Spanish-speaking
cultures, with emphasis on the development of communicative skills and basic
structures. Focus is on teaching elementary-level language acquisition in a
contextual cultural context through listening, speaking, reading and writing. Interacts with
authentic language in context. Combines in-class instruction and practice with
self-paced study in the World Languages Laboratory. No previous experience in
Spanish is required.

SPAN 101A  Spanish IA  (3)
3 hours lecture
Note: Covers the first half of SPAN 101; not open to students with credit for SPAN
101
Transfer acceptability: CSU; UC
Equivalent to the first half of Spanish 101. A study of the Spanish language and
Spanish-speaking cultures, with emphasis on the development of communicative
skills and basic structures. Focus is on teaching elementary-level language
acquisition in a cultural context through listening, speaking, reading and writing.
Interacts with authentic language in context. No previous experience in Spanish
is required.

SPAN 101B  Spanish IB  (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in SPAN 101 or one year of high school
Spanish
Note: Covers the second half of SPAN 101; not open to students with credit for
SPAN 101.
Transfer acceptability: CSU; UC
Spanish 101B is equivalent to the second half of Spanish 101. A study of the Spanish
language and Spanish-speaking cultures, with emphasis on the development of
communicative skills and basic structures. Focus is on teaching elementary-level
language acquisition in a cultural context through listening, speaking, reading and
writing. Interacts with authentic language in context.

SPAN 102  Spanish II  (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in SPAN 101 or 101B or two years of high
school Spanish
Note: Not open to students with credit for SPAN 102B.
Transfer acceptability: CSU; UC
Second semester of Spanish. A study of Spanish language and Spanish-speaking
cultures, with continued emphasis on the development of communicative skills
and basic structures. Continues focus on teaching elementary-level language
acquisition in a cultural context through listening, speaking, reading and writing.
Interacts with authentic language in context. Combines in-class instruction with
self-paced study in the World Languages Laboratory.
SPAN 201  Spanish III  (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of 'C' in SPAN 102 or 102B or three years of high school Spanish
Note: Not open to students with credit for SPAN 201B.
Transfer acceptability: CSU; UC

Third semester of Spanish. A study of the Spanish language and Spanish-speaking cultures with an emphasis on structures and readings of culturally relevant authentic materials. Focus in on teaching culture and facilitates intermediate-level language acquisition through listening, speaking, reading and writing. Students will continue to interact with authentic language in context. Combines in-class instruction with self-paced study in the World Languages laboratory. Class is largely conducted in Spanish.

SPAN 202  Spanish IV  (5)
5 hours lecture
Prerequisite: A minimum grade of 'C' in SPAN 201 or four years of high school Spanish
Transfer acceptability: CSU; UC – SPAN 202 and 212 combined: maximum credit, one course

Fourth semester of Spanish. A continued study of the Spanish language and Spanish-speaking cultures, focusing on the refined use of intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on the expansion of cross-cultural awareness, as well as, the development of language skills in order to acquire communicative competence in Spanish. Teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Interacts with more sophisticated authentic language in context. Conducted in Spanish.

SPAN 211  Spanish for Heritage Speakers I  (5)
5 hours lecture - 1 hour laboratory
Transfer acceptability: CSU; UC – C-ID SPAN 220

Designed for heritage speakers of Spanish or other linguistically qualified students. Provides instruction that builds upon the existing reading, writing, speaking and listening skills. Also focuses on the cultural heritage and knowledge of Spanish-speaking students. Increases awareness of linguistic registers, expands vocabulary, and develops an appreciation for Hispanic and Latino cultures as manifested in Spanish speaking countries and in the United States. This course is entirely conducted in Spanish.

SPAN 212  Spanish for Heritage Speakers II  (5)
5 hours lecture
Prerequisite: SPAN 211 or four years of high school Spanish
Transfer acceptability: CSU; UC

Course is designed for heritage speakers of Spanish or other linguistically qualified students. Continues to provide instruction that builds upon the existing reading, writing, speaking and listening skills and the cultural heritage and knowledge of Spanish-speaking students. Continues to increase awareness of linguistic registers and expand vocabulary toward the advanced level. Practice in expository and creative writing based on culturally relevant readings and critical thinking. Develops an appreciation for Hispanic and Latino cultures as manifested in Spanish speaking countries and in the United States. This course is entirely conducted in Spanish.

SPAN 235  Intermediate Conversation and Writing  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in SPAN 201, or SPAN 211
Transfer acceptability: CSU; UC

An intermediate-level study of the Spanish language and Spanish-speaking cultures. Focus is on developing oral and written proficiency within a cultural context.

SPAN 295  Directed Study in Spanish  (1, 2, 3 units)
3, 6, or 9 hours lecture
Transfer acceptability: CSU

Individual study in areas of Spanish language or culture. Designed for the student who has the initiative to work independently on a topic that is outside the scope of regularly scheduled classes.

Speech (SPCH)

Contact the Speech Communication/Forensics/ASL Department for further information.
760-744-1150, ext. 2405
Office: H-201J

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

Communication Studies (AA-T)

The Associate in Arts in Communication Studies for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Communication Studies. The Communication Studies AA-T degree encourages students to examine and evaluate human communication across and within various contexts for the purpose of increasing competence. The Communication Studies AA-T degree is beneficial for students seeking a baccalaureate degree ultimately leading to careers in business, teaching, law, counseling, healthcare, broadcasting, advertising, journalism and performing arts.

Pursuant to SB1440, the following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

AA-T TRANSFER MAJOR

Required Courses
SPCH 100  Oral Communication  3

List A: Select Two (6 units)
*SPCH 105  Beginning Argumentation and Debate  3
SPCH 115  Interpersonal Communication  3

List B: Select Two (6 units)
SPCH 290  Competitive Intercollegiate Forensics  3
SPCH 131  Intercultural Communication  3
*SPCH 120  Human Communication  3
COMM 100  Introduction to Mass Communication  3
SPCH/TA 125  Beginning Oral Interpretation  3
*SOC/PSYC 205  Statistics for the Behavioral Sciences  4
JOUR 105  Multimedia News Writing and Production  3
JOUR 130  Writing for Online Journalism  3
JOUR/PHOT 140  Photojournalism  3

See Catalog addendum at http://www.palomar.edu/catalog
Speech Communication (AA)

Prepares the student for employment in programs where advanced speaking skills are necessary. Transfer students should consult the four year college or university catalog for specific requirements or see a Palomar College counselor.

A.A. DEGREE MAJOR

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SPCH 100 Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 105 Beginning Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 115 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 120 Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/TA125 Beginning Oral Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 131 Intercultural Communication</td>
<td>3</td>
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</tbody>
</table>

**TOTAL UNITS** 18

**COURSE OFFERINGS**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SPCH 100 Oral Communication</td>
<td>(3)</td>
</tr>
<tr>
<td>3 hours lecture</td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability: CSU; UC</td>
<td></td>
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<tr>
<td>C-ID COMM 110</td>
<td></td>
</tr>
<tr>
<td>An introduction to the fundamental principles and techniques of public address. Students will frequently prepare and present talks of informative or persuasive intent. Emphasis will be placed on the collection, analysis, and organization of material appropriate to typical public address situations, as well as on the linguistic, vocal, and physical skills needed for effective delivery.</td>
<td></td>
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<tr>
<td>SPCH 105 Beginning Argumentation and Debate</td>
<td>(3)</td>
</tr>
<tr>
<td>3 hours lecture</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: A minimum grade of 'C' in ENG 100</td>
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<tr>
<td>Transfer acceptability: CSU; UC</td>
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<tr>
<td>C-ID COMM 120</td>
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<tr>
<td>Argumentative theory and practice including burden of proof, logical analysis, research, types and uses of evidence, deductive and inductive reasoning, logical fallacies, written argumentative essay construction, refutation, rebuttal, and argument evaluation paradigms. Basic written communication skills are developed through composing, drafting, reviewing, and rewriting (1) analytical topic area essays, (2) affirmative and negative cases, and (3) written peer evaluation essays. Oral communication skills are developed through the agency of public debate. Critical perspectives on values and public policy, including examinations of diverse paradigms are emphasized.</td>
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<tr>
<td>SPCH 115 Interpersonal Communication</td>
<td>(3)</td>
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<tr>
<td>3 hours lecture</td>
<td></td>
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<tr>
<td>Transfer acceptability: CSU</td>
<td></td>
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<tr>
<td>C-ID COMM 130</td>
<td></td>
</tr>
<tr>
<td>Introduction to the fundamental principles and terms of communication study in the interpersonal or face-to-face context. Analysis of communication patterns in developing, stable, and deteriorating relationships. Topics include communication rules and competence, perception and empathy, love, and family interaction.</td>
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<tr>
<td>SPCH 120 Human Communication</td>
<td>3</td>
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<tr>
<td>Transfer acceptability: CSU; UC</td>
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<tr>
<td>C-ID COMM 180</td>
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<tr>
<td>A comprehensive introduction to the study of human communication processes including verbal and nonverbal modalities. Human abilities are compared to the communication systems of other species. Key definitions and concepts in communication theory are reviewed. Communication processes in personal, public, and mass mediated contexts are analyzed.</td>
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<tr>
<td>SPCH 125 Beginning Oral Interpretation</td>
<td>(3)</td>
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<tr>
<td>3 hours lecture</td>
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<tr>
<td>Note: Cross listed as TA 125</td>
<td></td>
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<tr>
<td>Transfer acceptability: CSU; UC</td>
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<tr>
<td>C-ID COMM 170</td>
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<tr>
<td>An introduction to the oral reading of prose, poetry, and drama in distinct and intertextual formats. Models of critical analysis will be applied to written literature and reading will be performed and evaluated by applying principles of effective delivery.</td>
<td></td>
</tr>
<tr>
<td>SPCH 131 Intercultural Communication</td>
<td>(3)</td>
</tr>
<tr>
<td>3 hours lecture</td>
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<tr>
<td>Transfer acceptability: CSU</td>
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<tr>
<td>C-ID COMM 150</td>
<td></td>
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<tr>
<td>Introduction to the fundamental principles and terms of communication study in intercultural or cross-cultural contexts. Analysis of the opportunities and problems presented by national, ethnic, linguistic, and gender-based variation in verbal and nonverbal behaviors.</td>
<td></td>
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<tr>
<td>SPCH 145 Management of Speech Activities</td>
<td>(1)</td>
</tr>
<tr>
<td>3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability: CSU</td>
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<tr>
<td>Planning, preparation, management, and supervision of speech tournaments and other interscholastic speech activities.</td>
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<tr>
<td>SPCH 150 Debate Research</td>
<td>(1)</td>
</tr>
<tr>
<td>3 hours laboratory</td>
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<tr>
<td>Transfer acceptability: CSU</td>
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<tr>
<td>Advanced debate training including investigation and research of the national intercollegiate debate resolution.</td>
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<tr>
<td>SPCH 160 Practical Public Speaking</td>
<td>(1)</td>
</tr>
<tr>
<td>3 hours laboratory</td>
<td></td>
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<tr>
<td>Transfer acceptability: CSU</td>
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<tr>
<td>Thorough individual preparation for effective oral communication in a variety of speech situations. This class will make up the college forensics team and the student speaker's bureau; students will be selected from classes in the speech curricula. Required of all students participating in intercollegiate competitive speech activities.</td>
<td></td>
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<tr>
<td>SPCH 197A Topics in Speech Communication</td>
<td>(1-3)</td>
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<tr>
<td>Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.</td>
<td></td>
</tr>
<tr>
<td>Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.</td>
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<tr>
<td>Topics in Speech Communication. See Class Schedule for specific topic offered. Course title will designate subject covered.</td>
<td></td>
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</tbody>
</table>
SPCH 290  Competitive Intercollegiate Forensics  (3)
9 hours laboratory
Note: May be taken 4 times
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
C-ID COMM 160B
Advanced projects including individual research. Tutoring and performance for college classes and community including reader’s theatre; informative, persuasive, entertaining, extemporaneous, and impromptu speaking; communication analysis, prose, poetry, duo interpretation, programmed reading, and debate.

Theatre Arts (TA)
Contact the Performing Arts Department for further information.
760-744-1150, ext. 2316
Office: PAC-112
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).
Associate Degrees for transfer IGETC and CSUGE requirements are listed in Section 7 (green pages).

PROGRAMS OF STUDY

Entertainment Technology (CA)
This program will prepare students for employment in the fields of entertainment technologies at entry level. The areas of potential employment include theme parks, casinos, cruise ships, concerts, gallery display and design, event installations, live event technical support, and theatre venues providing non-theatre related events. Basic rigging and production safety will be a component of this program.

CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
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<tr>
<td>DBA 100</td>
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<tr>
<td>ENTT/DBA 120</td>
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<tr>
<td>ENTT/TA 105</td>
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<tr>
<td>MUS 112</td>
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<td>TA/DNCE/</td>
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<tr>
<td>ENTT 124</td>
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<tr>
<td>TA 192A</td>
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Elective Courses (select 10 units):

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<tr>
<td>ENTT106A</td>
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<tr>
<td>ENTT/ENTT 108</td>
<td>3</td>
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<tr>
<td>TA/ENTT/</td>
<td></td>
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<tr>
<td>MUS 114</td>
<td>2</td>
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<tr>
<td>TA/ENTT 170</td>
<td>2</td>
</tr>
<tr>
<td>TA/ENTT 171</td>
<td>2</td>
</tr>
<tr>
<td>FASH 135</td>
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</tbody>
</table>

TOTAL UNITS 34

Recommended Electives: ARCH 105; CFT 100; TA 191A; TA 191B; TA 192C; TA 192D

Technical Theatre (CA)
A program that prepares individuals to apply artistic, technical and dramatic principles and techniques to the communication of dramatic information, ideas, moods, and feelings through technical theatre methods. Includes instruction in set design, lighting, design, sound effects, theatre acoustics, scene painting, property management, costume design, technical direction and production, and use of computer applications to support these functions above.

CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
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<tr>
<td>TA/ENTT 105</td>
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<td>TA/FASH/</td>
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<td>ENTT 106A</td>
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<td>TA/ENTT 107</td>
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<td>TA/ENTT 111</td>
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<td>MUS 112</td>
<td>3</td>
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<tr>
<td>TA 115</td>
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<td>or</td>
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<tr>
<td>TA 116</td>
<td>3</td>
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<td>TA/DNCE/</td>
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<tr>
<td>ENTT 124</td>
<td>3</td>
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<tr>
<td>TA/ENTT 170</td>
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<tr>
<td>TA 192A</td>
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<td>TA 192B</td>
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History/Literature Courses (select one of the following):

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<td>TA 141</td>
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<td>TA 150</td>
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Advanced Technical Courses (select one of the following):

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<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>TA/FASH 109</td>
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<tr>
<td>TA/ENTT/</td>
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<tr>
<td>MUS 114</td>
<td>1.5 - 2</td>
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<td>TA/ENTT 171</td>
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<tr>
<td>FASH 135</td>
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</tr>
</tbody>
</table>

TOTAL UNITS 33-36.5

Recommended Electives: ARCH 105; CFT 100; TA 191A; TA 191B; TA 192C; TA 192D
Theatre Arts (AA)

The Theatre Arts (AA) program at Palomar College is designed to provide students with a comprehensive understanding of theatre arts. The program emphasizes the discipline of craft while taking risks and developing their own artistic sensibility. Critically-acclaimed productions range from the classical to the experimental, often serving as a focal point for campus-wide dialogue on social issues. The program also emphasizes collaboration with the other disciplines in the Performing Arts Department and colleagues in the Art Department.

**A.A. DEGREE MAJOR**

**Program Requirements:**
- TA 100 Introduction to the Theatre 3
- TA/ENTT 105 Introduction to Technical Theatre 3
- TA/ENTT 107 Lighting for Stage and Television 3
- TA 115 Acting I 3
- TA 150 Dramatic Literature and Script Analysis 3
- TA 192A Technical Theatre Practicum I 1-2

**Beginning Costume and Makeup Courses (Select one):**
- TA/ENTT/FASH 106A Basic Costume I: Technology 3
- TA/FASH 109 Elementary Stage Make-Up 3

**Theatre History Courses (Select One):**
- TA 140 History of the Theatre From Ancient Greece Through the 17th Century 3
- TA 141 History of the Theatre From the 18th Century to the Present 3

**Electives (Select 9 Units):**
- TA/ENTT 108 Stagecraft and Scene Design for Theatre and Television 3
- TA/FASH/ENTT 106B Basic Costume II: Design 3
- TA/ENTT/MUS 112 Basic Sound Reinforcement 3
- TA 113A Improvisational Theatre 1-3
- TA 113B Improvisational Theatre II 3
- TA/ENTT/MUS 114 Advanced Sound Reinforcement 1.5-2
- TA 116 Acting II 3
- TA 119 Voice and Speech 3
- TA/DNCE/ENTT 124 Beginning Stage Management 3
- TA/SPCH 125 Beginning Oral Interpretation 3
- TA 160 Beginning Stage Direction 3
- DNCE/MUS/TA 173 Musical Theatre Scenes I 1
- TA 184 Creative Theatre Ensemble 1-2
- TA 191A Rehearsal and Performance I 1-2
- TA 191B Rehearsal and Performance II 1-2
- TA 191C Rehearsal and Performance III 1-2
- TA 191D Rehearsal and Performance IV 1-2
- TA 192B Technical Theatre Practicum II 1
- TA 192C Technical Theatre Practicum III 1
- TA 192D Technical Theatre Practicum IV 1
- TA 215 Acting III 3
- TA 216 Acting IV 3

**TOTAL UNITS** 31-32

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Theatre Arts (AA-T)

The Theatre Arts (AA-T) program prepares students to move into curriculum at a four-year institution leading to a baccalaureate degree in Theatre Arts. Careers in this field include teaching, design, technical theatre, theatre management, professional performance, stage direction, and stage management among others. Completion of the Associate in Arts in Theatre Arts for Transfer degree provides guaranteed admission with junior status to the CSU system along with priority admission to CSU, San Marcos in the Visual and Performing Arts major. Upon completion, students will understand and be able to demonstrate the theories and techniques of acting; the technical production processes for the theatre arts, demonstrate knowledge of the historical and cultural dimensions of theatre, and understand the interaction between script, actor, and audience and the areas of scenery, lighting, sound, and costume.

To obtain the Associate in Arts in Theatre Arts for Transfer students must complete the following:

- a minimum of 18 semester units in the major as determined by the community college district, and:
- one of the following general education patterns:
  - the California State University General Education-Breadth (CSU GE-Breadth) pattern of 39 units; OR:
  - the Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units

Please consult a counselor regarding specific course requirements for your transfer institution.

**AA-T TRANSFER MAJOR**

**Program Requirements**
- TA 100 Introduction to the Theatre 3
- TA 140 History of the Theatre From Ancient Greece Through the 17th Century 3
- TA 115 Acting I 3
- TA 191A Rehearsal and Performance I 2
- TA 191B Rehearsal and Performance II 2
- TA 192B Technical Theatre Practicum I 1
- TA 192C Technical Theatre Practicum II 1
- TA 192D Technical Theatre Practicum III 1
- TA 192E Technical Theatre Practicum IV 1

**Electives (Select 9 units excluding any courses taken above)**
- TA/FASH/ENTT 106A Basic Costume I: Technology 3
- TA/ENTT 107 Lighting for Stage and Television 3
- TA/ENTT 108 Stagecraft and Scene Design for Theatre and Television 3
- TA/FASH 109 Elementary Stage Make-Up 3
- TA 116 Acting II 3
- TA 150 Dramatic Literature and Script Analysis 3
- TA 191A Rehearsal and Performance I 2
- TA 191B Rehearsal and Performance II 2
- TA 192B Technical Theatre Practicum I 1
- TA 192C Technical Theatre Practicum II 1

**TOTAL UNITS** 18-19
COURSE OFFERINGS

Individual courses are not repeatable. State Regulations (Title 5, Sections 55040-55041) also limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Theatre Arts have limitations on the number of times a student may enroll. Specific information about enrollment limitations for Theatre Arts classes is available at http://www.palomar.edu/schedule/restrictions.htm

TA 100  Introduction to the Theatre  (3)  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID THTR 111  
Theatre texts, processes and performances create a mirror that reflects an image of the world. This course actively engages students through the language, tools and processes of theatre to examine and encounter our world and to articulate insights about human behavior, experience, culture & society.

TA 105  Introduction to Technical Theatre  (3)  
2 hours lecture - 4 hours laboratory  
Note: Cross listed as ENTT 105  
Transfer acceptability: CSU; UC  
A practical introduction to the theories and applications of construction techniques, language, principles, safety, and tools used in the creation of theatrical scenery and properties. The language, tools, and principles of other technical theatre crafts, such as lighting, costuming, make-up, sound design, and stage management will also be presented.

TA 106A  Basic Costume I: Technology  (3)  
2 hours lecture - 3 hours laboratory  
Note: Cross listed as FASH 106A and ENTT 106A  
Transfer acceptability: CSU; UC  
C-ID THTR 174  
A foundational course providing a basic introduction to practices, theories, techniques and procedures of costume technology for theatre, film and television. Focus will be on the structure of a working costume shop, basic hand and machine sewing techniques, textile identification, basic garment fitting, simple pattern modification, and production wardrobe crew procedures. Practical training in college productions is incorporated during the course of study.

TA 106B  Basic Costume II: Design  (3)  
2 hours lecture - 3 hours laboratory  
Note: Cross listed as FASH 106B and ENTT 106B  
Transfer acceptability: CSU; UC  
C-ID THTR 174  
A foundational course providing a basic introduction to practices, theories, techniques and procedures of costume design for theatre, film and television. Through a series of costume projects, students develop design theory, drawing techniques and script analysis abilities. Practical training in college productions is incorporated during the course of study.

TA 107  Lighting for Stage and Television  (3)  
2 hours lecture - 3 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in ENTT/TA 105  
Note: Cross listed as ENTT 107  
Transfer acceptability: CSU; UC  
C-ID THTR 173  
Techniques, theories, and procedures necessary to develop lighting and lighting effects integrated into film, television, and theatre productions. Practical experience in college productions.

TA 108  Stagecraft and Scene Design for Theatre and Television  (3)  
2 hours lecture - 3 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in ENTT/TA 105  
Note: Cross listed as ENTT 108  
Transfer acceptability: CSU; UC  
C-ID THTR 172  
Technical practices and organization of production for theatre, film, and television. Practice in drafting, designing, and construction of scenery for college productions.

TA 109  Elementary Stage Make-Up  (3)  
2 hours lecture - 4 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in ENTT/TA 105  
Note: Cross listed as FASH 109  
Transfer acceptability: CSU; UC  
C-ID THTR 175  
Basic theories, techniques, and procedures of make-up production for stage, film, and television. Practical training in college productions.

TA 111  Technical Theatre Production  (5)  
1½ hours laboratory  
Prerequisite: A minimum grade of ‘C’ in ENTT/TA 105; completion of, or concurrent enrollment in TA/FASH 106 or TA/ENTT 107 or TA/ENTT 108, or TA/FASH 109  
Transfer acceptability: CSU; UC  
C-ID THTR 172  
Techniques and procedures of planning and coordination through all phases of the technical theatre production process. Practical training through college production.

TA 112  Basic Sound Reinforcement  (3)  
2 hours lecture - 3 hours laboratory  
Note: Cross listed as ENTT 112 and MUS 112  
Transfer acceptability: CSU  
C-ID THTR 114  
An introduction to basic sound equipment and reinforcement principles. To understand basic set up, operation, and troubleshooting of live Public Address systems in a concert or theatrical setting.

TA 113A  Improvisational Theatre I  (3)  
3 hours lecture  
Transfer acceptability: CSU  
C-ID THTR 113A  
Improvisational theatre techniques for various forms that engage the audience in an interactive performance setting. The course includes basic skills for creating and sustaining improvised situations as well as improvisational structures that challenge the participant’s skills. Also included are improvisational structures that will reflect and analyze societal situations of conflict found in the participants’ lives and communities.

TA 113B  Improvisational Theatre II  (3)  
3 hours lecture  
Transfer acceptability: CSU  
C-ID THTR 113B  
Advanced skills for creating, performing and facilitating improvisational and interactive theatre events.

TA 114  Advanced Sound Reinforcement  (1.5 - 2)  
4½ - 6 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in TA/ENTT/MUS 112  
Note: Cross listed as ENTT/MUS 114  
Transfer acceptability: CSU  
C-ID THTR 114  
Advanced principles of electronic sound, acoustics, equalization and effects processing, recording of live sound in a concert or theatrical setting, equipment management and design techniques.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture/Laboratory Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 115</td>
<td>Acting I</td>
<td>3</td>
<td>3 hours lecture</td>
</tr>
<tr>
<td>TA 116</td>
<td>Acting II</td>
<td>3</td>
<td>3 hours lecture</td>
</tr>
<tr>
<td>TA 119</td>
<td>Voice and Speech</td>
<td>3</td>
<td>3 hours lecture</td>
</tr>
<tr>
<td>TA 124</td>
<td>Beginning Stage Management</td>
<td>3</td>
<td>2 hours lecture - 3 hours laboratory</td>
</tr>
<tr>
<td>TA 125</td>
<td>Beginning Oral Interpretation</td>
<td>3</td>
<td>3 hours lecture</td>
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<td>TA 131</td>
<td>Elementary Stage Costume and Make Up</td>
<td>3</td>
<td>2 hours lecture - 3 hours laboratory</td>
</tr>
<tr>
<td>TA 140</td>
<td>History of the Theatre From Ancient Greece Through the 17th Century</td>
<td>3</td>
<td>3 hours lecture</td>
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<td>TA 141</td>
<td>History of the Theatre From the 18th Century to the Present</td>
<td>3</td>
<td>3 hours lecture</td>
</tr>
<tr>
<td>TA 150</td>
<td>Dramatic Literature and Script Analysis</td>
<td>3</td>
<td>3 hours lecture</td>
</tr>
<tr>
<td>TA 160</td>
<td>Beginning Stage Direction</td>
<td>3</td>
<td>3 hours lecture</td>
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<tr>
<td>TA 170</td>
<td>Computer Aided Drafting for Theatre</td>
<td>2</td>
<td>6 hours laboratory</td>
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<tr>
<td>TA 171</td>
<td>Advanced Lighting Lab</td>
<td>2</td>
<td>6 hours laboratory</td>
</tr>
<tr>
<td>TA 173</td>
<td>Musical Theatre Scenes I</td>
<td>1</td>
<td>3 hours laboratory</td>
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<tr>
<td>TA 174</td>
<td>Musical Theatre Scenes II</td>
<td>3</td>
<td>3 hours lecture</td>
</tr>
<tr>
<td>TA 182</td>
<td>Introduction to Arts Management</td>
<td>3</td>
<td>9 hours laboratory</td>
</tr>
</tbody>
</table>

**Notes and Prerequisites:**
- A minimum grade of 'C' in TA 100
- A minimum grade of 'C' in TA 115
- A minimum grade of 'C' in TA 107
- A minimum grade of 'C' in TA 173/MUS 173
- A minimum grade of 'C' in DNCE/MUS/TA 170
- A minimum grade of 'C' in DNCE/MUS/TA 174
- A minimum grade of 'C' in TA 115

**Transfer Acceptability:**
- CSU; UC

**Description:**
- In a workshop environment, the student will learn the basic tools and terminology of acting. The student will apply this knowledge and experience to the performance of short scenes.
- This course follows Acting I and continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process. Designed to improve the actor's skills for performing scenes and monologues with truth and power. Actors will improve their ability to pursue the character's needs and objectives, to be vulnerable to their partners' words and actions and to create with a range of emotion. Actors in this class will continue to develop their vocal and physical technique.
- A practical and experiential class introducing students to exercises and theories of voice and speech production leading to improved power, expressiveness and clarity. Methodology will include major contemporary approaches to developing the actor's voice.
- Introduces students to the practices and techniques of Stage Management. Students will assist a stage manager on a project during the course of the semester. Regular availability on evenings and weekends is required.
- An introduction to the oral reading of prose, poetry and drama in distinct and intertextual formats. Models of critical analysis will be applied to written literature and reading will be performed and evaluated by applying principles of effective delivery.
- Basic theories, techniques, and procedures of costume production and make-up application for stage, film, and television. Practical training in college productions.
- A survey of the influence of different cultures, traditions, and technologies on the development of the theatre as a social institution from Ancient Greece through the 17th Century.
- A survey of the influence of different cultures, traditions, and technologies on the development of the theatre as a social institution from the 18th Century to the present.
- This course is designed to allow the student to explore, understand, and appreciate a diverse range of play scripts. Using investigative techniques [e.g. scrutinizing the playwright’s methods of creating theatre through plot, character and imagery, and understanding how scripts convey meaning to the professional theatre artist and theatre-goer as distinct from other forms of literature], the student will gain new insights into how to read, use, and create a play script.
- Training in the principles, procedures, and methods of stage direction. Students will serve as assistant directors on college productions and will also direct scenes for acting classes and studio productions.
- An introduction to Computer Aided Drafting (CAD) for theatre. Hands on experience with CAD software to be supplemented with basic mechanical drafting terminology and techniques. An introduction to user specific third party software as related to drafting and designing of scenery and lighting for college productions.
- Rehearsal and performance of solo and group scenes from Broadway musicals dating from the 1930’s to the present.
- A deeper exploration into the techniques, theories, and procedures necessary to develop lighting and lighting effects. Practical experience in college theatre, dance, and music productions.
- A continuation of Musical Theatre Scenes I. A deeper exploration into the acting, singing, and dancing necessary for Broadway Musicals from the 1930’s to present.
- An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.
TA 183 Internship in Arts Management  (3)
9 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AMS/ART/DANCE/MUS or TA 182
Note: Cross listed as AMS 183/ART 183/DNCE 183/MUS 183
Transfer acceptability: CSU; UC
Practical experience in arts management in the visual and performing arts.

TA 184 Creative Theatre Ensemble  (1, 1.5, 2)
3, 4½ or 6 hours laboratory
Transfer acceptability: CSU; UC
Students in theatre and allied disciplines work collaboratively on creating an
original devised theatre performance or on an existing text that requires an
ensemble approach to the performance.

TA 191A Rehearsal and Performance I  (1, 2)
3 or 6 hours laboratory
Transfer acceptability: CSU; UC
C-ID THTR 191
An initial experience of the rehearsal and performance of a departmental
theatrical production. Generally this would involve an ensemble, non-speaking or
small supporting role.

TA 191B Rehearsal and Performance II  (1, 2)
3 or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in TA 191A
Transfer acceptability: CSU; UC
C-ID THTR 191
Second experience of the rehearsal and performance of a departmental theatre
production. Generally this would involve a small to medium supporting role in
the production.

TA 191C Rehearsal and Performance III  (1, 2)
3 or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in TA 191B
Transfer acceptability: CSU; UC
C-ID THTR 191
Third experience of the rehearsal and performance of a departmental theatre
production. Generally this would involve a medium supporting role or leading
role in the production.

TA 191D Rehearsal and Performance IV  (1, 2)
3 or 6 hours laboratory
Prerequisite: A minimum grade of ‘C’ in TA 191C
Transfer acceptability: CSU; UC
C-ID THTR 191
Fourth experience of the rehearsal and performance of a departmental theatre
production. Generally this would involve a large supporting role or lead role in
the production.

TA 192A Technical Theatre Practicum I  (1-2)
3-6 hours laboratory
Note: At least one unit of this course is required of all theatre arts majors
Transfer acceptability: CSU; UC
C-ID THTR 192
Students will gain practical experience in the application of production responsibilities in house staff. Students will also observe and evaluate the production responsibilities of the stage crew.

TA 192B Technical Theatre Practicum II  (1)
3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in TA 192A
Transfer acceptability: CSU; UC
C-ID THTR 192
Students will gain practical experience in the application of production responsibilities in the stage crew. Students will also observe and evaluate the production responsibilities of the technical staff.

TA 192C Technical Theatre Practicum III  (1)
3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in TA 192B
Transfer acceptability: CSU; UC
C-ID THTR 192
Students will gain practical experience in the application of production responsibilities in the technical staff. Students will also observe and evaluate the production responsibilities of the leadership roles in the technical staff.

TA 192D Technical Theatre Practicum IV  (1)
3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in TA 192C
Transfer acceptability: CSU; UC
C-ID THTR 192
Students will gain practical experience in the application of production responsibilities in a leadership role in the technical staff. Students will also observe and evaluate the production responsibilities of the design staff.

TA 197E Management of Theatre Activities  (.5-3)
1½ to 9 hours laboratory
Transfer acceptability: CSU
The principles of organization, operation, and planning for theatre management
including programming, ticket sales, box office records, and promotional news
release writing. Practical use applied to theatre productions.

TA 197F Theatre Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus
Topics in theatre. See Class Schedule for specific topic offered. Course title will
designate subject covered.

TA 215 Acting III  (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in TA 116
Transfer acceptability: CSU; UC
Emphasizes analysis of literary text and physical methods in the process of
creating characters. Scene study and role preparation of significant texts by
modern playwrights.

TA 216 Acting IV  (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in TA 116
Transfer acceptability: CSU; UC
Advanced topics in acting technique including approaches to style and
contemporary innovations in acting methods.

University Studies
Contact the Counseling Center for further information.
760-744-1150, ext. 2179
Office: SSC-18A
Associate Degree, Certificate of Achievement and Certificate of Proficiency
requirements are listed in Section 6 (green pages).
PROGRAMS OF STUDY

California State University
General Education Breadth (CA)

Students who complete the California State University General Education (CSUGE) transfer pattern, commonly referred to at Palomar as the “blue sheet,” may be awarded a Certificate of Achievement. Completion of the CSUGE pattern satisfies the lower-division general education requirements for the CSU system.

Although this certificate recognizes completion of the lower-division general education requirements, it does not guarantee admission into the CSU system.

CERTIFICATE OF ACHIEVEMENT

For a list of the approved courses for this program, please refer to the “California State University General Education (CSUGE) Requirements” listed in Section 7 (green pages) of the Catalog. Contact the Counseling Services Department with questions or for additional information.

Program Requirements Units
Area A: English Language Communication and Critical Thinking 9
Area B: Scientific Inquiry and Quantitative Reasoning 9
Area C: Arts and Humanities 9
Area D: Social Sciences 9
Area E: Lifelong Learning and Self-Development 3
MINIMUM UNITS 39

Intersegmental General Education Transfer Curriculum (CA)

Students who complete the Intersegmental General Education Transfer Curriculum (IGETC) transfer pattern, commonly referred to at Palomar as the “green sheet,” may be awarded a Certificate of Achievement. Completion of the IGETC pattern satisfies the lower-division general education requirements for the UC and/or CSU system.

Although this certificate recognizes completion of the lower-division general education requirements, it does not guarantee admission into the UC or CSU system.

CERTIFICATE OF ACHIEVEMENT

For a list of the approved courses for this program, please refer to the “Intersegmental General Education Transfer Curriculum Requirements” listed in Section 7 (green pages) of the Catalog. Contact the Counseling Services Department with questions or for additional information.

Program Requirements Units
Area 1: English Communication 6 - 9
Area 2: Mathematical Concepts and Quantitative Reasoning 3
Area 3: Arts and Humanities 9
Area 4: Social and Behavioral Sciences 9
Area 5: Physical and Biological Sciences 7 - 9
Area 6: Language Other Than English - UC Requirement Only 0 - 3
MINIMUM UNITS 37

University Studies (AA, AS)

This program is designed for students who wish a broad knowledge of liberal arts and sciences, plus additional course work in an “Area of Emphasis.” This program would be an ideal choice for students planning on transferring to the California State University (CSU) or University of California (UC), as the student may satisfy their general education requirements plus focus on transferable course work relating to baccalaureate majors at these institutions.

Because admission and major preparation requirements vary at each transfer institution, courses used to fulfill requirements for an emphasis should be selected with the assistance of a Palomar College counselor.

Disclaimer: California Community College courses listed on ASSIST are preapproved to meet the lower-division major prep requirements. Any other courses used by Palomar College to meet an emphasis are subject to approval by your transfer institution.

“Laboratory courses “L” may be used toward the major when the corresponding lecture is passed with a “C” or better.

ASSOCIATE DEGREE MAJOR

Program Requirements Units
Courses may be double-counted between the GE course work and the Area of Emphasis
California State University General Education (CSUGE) pattern 39
or
Intersegmental General Education Transfer Curriculum (IGETC) 34
Area of Emphasis 18
District Requirements
American History and Institutions 6
Health and Fitness 4
Multicultural 3
TOTAL UNITS 65 - 70

Select An Area of Emphasis:
Students may earn only one University Studies degree.

Emphasis in Business

This emphasis focuses on an analysis of the organization and operation of business enterprises. It will allow students to respond to a variety of business-related challenges, and stresses problem-solving skills involved in making managerial, financial, and technical decisions based on available data, tools, and resources.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Accountancy, Business Administration, Business Economics, Finance, Hospitality Management, Information Systems, International Business, Management, Management Science, Mathematical Economics and Economic Theory, Public Administration, and Recreation Administration.

Select 18 units minimum
Must complete course work from at least two disciplines.

ACCT 201, 202
BUS 100, 115, 117, 125, 204, 205
CSCI 112, 114, 146, 212
CSIT 105, 120, 121
ECON 101, 102, 110, 115, 120
MATH 110, 120, 130, 135, 140, 141, 146, 200, 205, 206
PHIL 116, 121, 122
POSC 102
PSYC 100, 115, 205, 230
SOC 100, 205
Emphasis in Culture and Society
This emphasis focuses on an exploration and understanding of the central issues in society today: race, ethnicity, class, gender, sexuality, nationality, and religion. It will allow students to experience and explore the diverse groups that make up America and the world.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as African-American Studies, American Indian Studies, American Studies, Chicana/Chicano Studies, Ethnic Studies, Gender Studies, Jewish Studies, Latin American Studies, Multicultural Studies, and Women’s Studies.

Select 18 units minimum
Must complete course work from at least two disciplines.
AS 100, 101, 102, 120, 126
AIS 100, 101, 102, 105, 115, 120, 125, 130, 135, 140, 145, 150, 165
AMS 100, 105, 110, 200
ANTH 126, 130, 140
ARAB 101, 101A, 101B, 102, 102A, 102B, 201, 201A, 201B
CS 100, 101, 102, 105
COMM 105
ENG 280
HIST 130
JAPN 130
JS 106
MCS 100, 110, 120, 124, 125, 157, 165, 200
PSYC 125, 145
RS 101, 106, 107, 124
SOC 115, 125, 135, 145, 200
SPCH 131
TA 157

Emphasis in Education
This emphasis focuses on the integration of concepts from the arts, humanities, literature, natural sciences, and social sciences, offering a broad foundation in diverse disciplines. It will allow students to develop skills in quantitative reasoning, critical thinking, and communication in the English language, both orally and in writing.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Liberal Studies and Elementary Subject Matter Preparation.

Select 18 units minimum
Must complete course work from at least two disciplines.
BIOL 100 or 101, 101L
CHDV 100
DNCE 101
ES 100, 100L
ENG 100, 202 or 203, 205, 220, 221, 225, 226
GEOG 103, 105
HIST 101, 102, 107
KINE 102
MATH 105, 106
MUS 100
PHIL 113, 116, 200
PHSC 101, 101L
SPCH 100, 105
TA 100

Emphasis in Fine and Performing Arts
This emphasis focuses on the contributions the arts have made, and continue to make, in establishing our cultural and historical traditions. It will allow students to concentrate on theoretical study and an appreciation of the arts from a critical and principally non-performing point-of-view, or to focus on the expression of, or performance in, one or more artistic mediums.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Dance, Fashion Design, Graphic Design, Interior Design, Music, Studio Arts, and Theatre Arts.

Select 18 units minimum
Must complete course work from at least two disciplines.
ARCH 150, 215, 216
ART 100, 102, 103, 104, 105, 120, 121, 145, 163, 164, 165, 166, 260
ARTD 200
BUS 145
CINE 102, 103, 120
DNCE 100, 101, 105, 110, 111, 115, 117, 118, 121, 130, 131, 140, 141, 149, 205, 206, 210, 211, 217, 218, 230
ENTT 105, 106A, 107, 108
FASH 100, 105, 106A, 109, 110, 120, 125, 130, 135, 136, 139, 145
GC 100
GCIP 140
HIST 105, 106
ID 100, 115, 125, 130, 150
PHOT 100, 125

Emphasis in Health and Fitness
This emphasis focuses on behaviors that protect and promote health at home, at school, and in the community. It presents the theory and science, both biological and physical, behind healthy growth and development throughout the life cycle.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Kinesiology, Nursing, Nutrition, and Physical Education.

Required courses (8 units minimum)
BIOL 210, 211

Select 10 units minimum
BIOL 100 or 101, 101L, 105 or 106, 145, 145L, 185, 200, 201, 212
CHEM 100, 104, 105, 110, 110L, 115, 115L, 205
CHDV 100
EME 100
HE 100, 104, 165
MATH 120, 135
NUTR 165, 185
PHYS 120, 121, 200, 201
PSYC 110, 110, 120, 205, 210
SOC 100, 130, 205

Emphasis in Humanities
This emphasis focuses on the methods and values of humanistic study. It will allow students to investigate the role philosophy, literature, religion, history, communication, and the arts play in the shaping of human cultures.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Comparative Literature, Humanities, Philosophy, Religious Studies, and World Literature.

Select 18 units minimum
Must complete course work from at least two disciplines.
CS 105
ENG 100, 135, 136, 202, 203, 205, 210, 211, 215, 220, 221, 225, 226, 230, 240, 245, 250
HIST 105, 106
HUM 100, 101
JS 106
PHIL 111, 113, 114, 116, 121, 122, 125, 126, 140, 141, 200
RS 101, 105, 106, 110
SPCH 100, 105, 115, 120, 125, 131
TA 125

See Catalog addendum at http://www.palomar.edu/catalog
Emphasis in Mathematics and Science
This emphasis focuses on training in the scientific method, the fundamental principles of natural science, and the principle laws and theories governing the physical and life sciences. It will also allow students to focus on the mathematical concepts, analytical thinking, and quantitative skills necessary for many other disciplines.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Applied Mathematics, Architecture, Astronomy, Aviation, Biochemistry, Biology, Biotechnology, Botany, Chemistry, Computer Science, Earth Science, Environmental Resource Management, Environmental Science, Geography, Geology, Geosciences, Marine Biology, Mathematics, Microbiology, Oceanography, Pre-Engineering, and Statistics.

Select 18 units minimum
Must complete at least one course in Mathematics and one in Science
ASTR 100, 105L, 120
BIOL 100 or 101, 101L, 102, 105 or 106, 114, 114L, 118, 118L, 125, 126, 126L, 130 or 131, 131L, 135, 140 or 141, 141L, 145, 145L, 185, 200, 201, 210, 211, 212
CHEM 110, 110L, 115, 115L, 205, 210, 220, 221
CSCI 112, 114, 146, 210, 212, 220, 222
CSWB 170
ES 100, 100L, 115
ENGR 210, 210L, 235, 236, 245
GEOG 100, 100L, 103, 105, 110, 115, 120, 125
GEOL 100, 100L, 110, 120, 150, 150L
MATH 100, 110, 115, 120, 130, 135, 140, 141, 146, 200, 205, 206, 245
NUTR 185
OCN 100, 100L
PHYS 120, 121, 200, 201, 230, 231, 232
PSYC 205, 210
SOC 205, 205L

Emphasis in Media and Communication
This emphasis focuses on various media and on how messages are produced, used, and interpreted. In addition, it will allow students to develop and apply skills in speaking, listening, and understanding verbal and non-verbal meanings.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Cinema, Communications, Journalism, Mass Media, Radio and Television, Speech, and Telecommunications and Film.

Select 18 units minimum
Must complete course work from at least two disciplines
ANTH 107
CINE 100, 102, 103, 225
COMM 100
DBA 100, 110, 220, 225
ENG 100, 150, 202, 203, 215
JOUR 101, 105, 140
PHOT 100, 105, 140
SPCH 100, 105, 115, 120, 125, 131
TA 100, 125

Emphasis in Social Sciences
This emphasis focuses on the nature of individual and collective human behavior. It will allow students to explore the political, economic, social, and psychological structures and institutions of human beings.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Administration of Justice, Anthropology, Child Development, Criminology, Gerontology, Government, History, Human Development, Political Science, Psychology, and Sociology.

Select 18 units minimum
Must complete course work from at least two disciplines
AJ 100, 102, 103, 104, 110
AS 101, 102, 126
AIS 101, 102, 130, 140
AMS 200
ANTH 100, 100L or 101, 105, 107, 110, 115, 125, 126, 130, 137, 140, 225
BIOL 100 or 101, 101L, 105 or 106
CS 101, 102
CHDV 100, 103, 104, 105, 115
COMM 100, 105
CSIT 105
ECON 101, 102, 120
ENG 150
FCS 105
GEOG 103, 105
HE 165
HIST 101, 102, 105, 106, 107, 108, 121, 130, 140, 141, 150, 151
JS 107
MATH 120
MCS 200
NUTR 165
POSC 100, 101, 102, 110
PSYC 100, 105, 110, 115, 120, 125, 130, 145, 205, 210, 225, 230, 235
RS 102, 107
SOC 100, 105, 110, 115, 125, 130, 135, 145, 200, 205

Emphasis in World Languages
This emphasis focuses on exploring the connection of language to daily life and cultural context. It will provide a background in English language, as well as promote listening, writing, speaking, and reading comprehension skills in one or more foreign languages.

Students may use this emphasis to focus on transfer courses required for such baccalaureate majors as Linguistics, specific foreign language majors, and any other major requiring proficiency in one or more foreign languages.

Select 6 units minimum
ENG 100, 202, 203
PHIL 200
SPCH 100, 131

Select 12 units minimum
ASL 100, 100L, 101, 101L, 110, 205, 205L, 206, 206L
ANTH 107
ARAB 101, 101A, 102, 102A, 102B, 201, 202A, 201B, 202B
CHIN 101, 102, 201
ENG 150
FREN 101, 102, 201, 202
GERM 101, 102, 201, 202
ITAL 101, 102, 201
JAPN 101, 102, 201
SPAN 101, 101A, 102, 102A, 102B, 201, 201A, 201B, 202, 211, 212, 235
Wastewater Technology Education (WWT)

Contact Occupational & Noncredit Programs for further information.
760-744-1150, ext. 2284
Office:AA-135
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

Wastewater Technology Education (AS, CA)

Provide comprehensive education to a diverse constituency for a career in the water and wastewater field that prepares students to contribute effectively in a profession responsible for protecting public health.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>WWT/WTE 50</td>
<td>Calculations in Water/Wastewater Technology</td>
<td>3</td>
</tr>
<tr>
<td>WWT 52</td>
<td>Basic Plant Operations:Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WWT 54</td>
<td>Wastewater Collection Systems</td>
<td>3</td>
</tr>
<tr>
<td>WWT/WTE 56</td>
<td>Intro to Electrical and Instrumentation Processes</td>
<td>3</td>
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<tr>
<td>WWT/PWM/</td>
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<tr>
<td>WTE 60</td>
<td>Public Works Management</td>
<td>3</td>
</tr>
<tr>
<td>WWT 64</td>
<td>Advanced Plant Operations:Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WWT/WTE 66</td>
<td>Motors, Pumps, and Hydraulics</td>
<td>3</td>
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Electives (Select 6 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>WWT/WTE 58</td>
<td>Backflow Tester Training</td>
<td>3</td>
</tr>
<tr>
<td>WWT/WTE 62</td>
<td>Cross Connection Specialist</td>
<td>3</td>
</tr>
<tr>
<td>WWT 97</td>
<td>Wastewater Technology Education Topics</td>
<td>0.5 - 4</td>
</tr>
<tr>
<td>* CE 100</td>
<td>Cooperative Education</td>
<td>3 - 4</td>
</tr>
</tbody>
</table>

TOTAL UNITS 27

*Cooperative Education must be related to this major.

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

WWT 50 Calculations in Water/Wastewater Technology (3)
3 hours lecture
Note: Cross listed as WTE 50
Provides instruction in entry-level to intermediate-level mathematical calculations used in the operation and evaluation of conventional water/wastewater treatment processes and water distribution systems. The course content has been developed to meet requirements for entry to water/wastewater education program courses. Course will cover basic geometry, metric conversions, flows, pressure, and chemical dosage as it relates to the water/wastewater industry. Material will parallel some of the problems found on State Certification examinations.

WWT 52 Basic Plant Operations:Wastewater Treatment (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
An introductory wastewater treatment plant operations course. Topics covered include: the various origins and characteristics of wastewater; an overview of wastewater collections systems; preliminary treatment; primary treatment; fixed film secondary biological treatment processes; treatment ponds and disinfection. Emphasis is given to the role of the operator and preparation for solving practical problems and problems typical of those found in Operator Certification examinations.

WWT 54 Wastewater Collection Systems (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
Wastewater collection systems and collection system equipment, pipeline cleaning and maintenance, system design, safety procedures, inspecting and testing procedures used in collections systems.

WWT 56 Intro to Electrical and Instrumentation Processes (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
Note: Cross listed as WTE 56
Introduction to basic electrical theory, applications, common uses, and real world examples of control systems and instrumentation used in water distribution, water and wastewater treatment plants; including switches, relays, alarms, motors, instrumentation, valve actuators, computers, and communication.

WWT 58 Backflow Tester Training (3)
2 1/2 hours lecture - 1 1/2 hours laboratory
Note: Cross listed as WTE 58
Provides intensive training focused on the field testing procedures and diagnostics for backflow prevention devices and training in the recognition and abatement of cross connections in water and plumbing systems. Students will acquire the knowledge, skills, and abilities required to test as a certified backflow tester.

WWT 60 Public Works Management (3)
3 hours lecture
Note: Cross listed as PWM/WTE 60
Administration, management, and supervisory aspects of public agencies including organization, decision making, coordination, communication, and public relations. Personnel supervision including coaching, training, evaluation, discipline, team building, morale, and grievances. Safety programs and encouraging safe conditions, actions and attitudes.

WWT 62 Cross Connection Specialist (3)
3 hours lecture
Note: Cross listed as WTE 62
The study of the various levels of administrative and technical procedures necessary to operate a cross connection control program. Students will obtain the knowledge to become certified as a “Cross Connection Control Specialist” under the provisions set forth by the American Water Works Association.

WWT 64 Advanced Plant Operations:Wastewater Treatment (3)
3 hours lecture
A wastewater treatment and disposal course with an emphasis on control of these processes. Topics covered include: the activated sludge secondary treatment process and its variations; sludge digestion, treatment and disposal; safety and housekeeping; maintenance and an overview of effluent disposal, tertiary treatment and reclaimed water. Emphasis is also given to the role of the operator and provides preparation for solving process control calculations and problems typical of those found in Operator Certification examinations.

WWT 66 Motors, Pumps, and Hydraulics (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
Note: Cross listed as WTE 66
Identification of problems encountered, causes of problems, corrective solutions, and repairs in the operation of pumps and motors. Implementation of maintenance programs including scheduling and recordkeeping.

WWT 97 Wastewater Technology Education Topics (0.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule. Topics in Wastewater Technology Education. See Class Schedule for specific topic offered. Course title will designate subject covered.
Water Technology Education (WTE)

Contact: Occupational & Noncredit Programs for further information.
760-744-1150, ext. 22B4
Office: AA-135
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY
Water Technology Education (AS, CA)

Provide comprehensive education to a diverse constituency for a career in the water and wastewater field that prepares students to contribute effectively in a profession responsible for protecting public health.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

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<td>WTE 52</td>
<td>Basic Plant Operations: Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WTE 54</td>
<td>Basic Plant Operations: Water Treatment</td>
<td>3</td>
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<tr>
<td>WWT/WTE 56</td>
<td>Intro to Electrical and Instrumentation Processes</td>
<td>3</td>
</tr>
<tr>
<td>WWT/PWM</td>
<td>Public Works Management</td>
<td>3</td>
</tr>
<tr>
<td>WTE 60</td>
<td>Laboratory Analysis for Water/Wastewater</td>
<td>3</td>
</tr>
<tr>
<td>WWT/WTE 66</td>
<td>Motors, Pumps, and Hydraulics</td>
<td>3</td>
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Electives (Select 9 units)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
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<tr>
<td>WTE/WWT 62</td>
<td>Cross Connection Specialist</td>
<td>3</td>
</tr>
<tr>
<td>WTE 72</td>
<td>Waterworks Distribution II</td>
<td>3</td>
</tr>
<tr>
<td>WTE 74</td>
<td>Advanced Plant Operations: Water Treatment and Reclamation</td>
<td>3</td>
</tr>
<tr>
<td>WTE 97</td>
<td>Water Technology Education Topics</td>
<td>0.5 - 4</td>
</tr>
<tr>
<td>CE 100</td>
<td>Cooperative Education</td>
<td>3 - 4</td>
</tr>
</tbody>
</table>

TOTAL UNITS 30

* Cooperative Education must be related to this major.

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

WTE 50 Calculations in Water/Wastewater Technology (3)
3 hours lecture
Note: Cross listed as WWT 50
Provides instruction in entry-level to intermediate-level mathematical calculations used in the operation and evaluation of conventional water/wastewater treatment processes and water distribution systems. The course content has been developed to meet requirements for entry to water/wastewater education program courses. Course will cover basic geometry, metric conversions, flows, pressure, and chemical dosage as it relates to the water/wastewater industry. Material will parallel some of the problems found on State Certification examinations.

WTE 52 Water Distribution Systems (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
Water utility system operations and maintenance. An introduction to the principles of pressure pipe systems and the hydraulics involved in their operation. Design, installation, operation, and maintenance of basic elements of water systems including pipes, pumps, valves, meters, and related hydraulic units. Operations and maintenance safety considerations emphasized. This course prepares students for the State of California - Water Distribution Operator Grade I, Grade II, and Grade III exams.

WTE 54 Basic Plant Operations: Water Treatment (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
Provides an introduction to water treatment plant operations in accordance with the Safe Drinking Water Act (SDWA). Special emphasis is given to implementation of the Surface Water Treatment Rule through USEPA approved filtration technology. Subject matter includes major provisions of the SDWA and its amendments; basic water chemistry; source water assessment; conventional treatment processes; treated water stability; waterborne diseases; public health protection; disinfection; and an introduction to math skills equivalent to those required of State of California Grade II water treatment plant operators. This class is helpful to those preparing for the Grade I and Grade II state examination.

WTE 56 Intro to Electrical and Instrumentation Processes (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
Note: Cross listed as WWT 50
Introduction to basic electrical theory, applications, common uses, and real world examples of control systems and instrumentation used in water distribution, water and wastewater treatment plants; including switches, relays, alarms, motors, instrumentation, valve actuators, computers, and communication.

WTE 60 Public Works Management (3)
3 hours lecture
Note: Cross listed as PWM/WWT 60
Administration, management, and supervisory aspects of public agencies including organization, decision making, coordination, communication, and public relations. Personnel supervision including coaching, training, evaluation, discipline, team building, morale, and grievances. Safety programs and encouraging safe conditions, actions and attitudes.

WTE 62 Cross Connection Specialist (3)
3 hours lecture
Note: Cross listed as WWT 62
The study of the various levels of administrative and technical procedures necessary to operate a cross connection control program. Students will obtain the knowledge to become certified as a “Cross Connection Control Specialist” under the provisions set forth by the American Water Works Association.

WTE 64 Laboratory Analysis for Water/Wastewater (3)
2½ hours lecture - 1½ hours laboratory
Recommended preparation: WTE/WWT 50
Prepares students to properly monitor public drinking water quality through study of: Federal and State regulations, laboratory analyses, types of contaminants, sample collection techniques and interpretation of monitoring data.

WTE 66 Motors, Pumps, and Hydraulics (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE/WWT 50
Note: Cross listed as WWT 66
Identification of problems encountered, causes of problems, corrective solutions, and repairs in the operation of pumps and motors. Implementation of maintenance programs including scheduling and recordkeeping.
WTE 72  Waterworks Distribution II  (3)
3 hours lecture
Prerequisite: A minimum grade of 'C' in WTE 52
Intermediate and advanced instruction in the field of water distribution, types of reservoirs, water lines, pumps, valves, and related appurtenances. Studies design, proper operation, and facilities repair of a public water system. Provides instruction in methods of record keeping and administrative responsibilities related to water systems. This course prepares students for the State Water Resources Control Board Water Distribution Operator certification exams at levels D-3 and D-4 and the “American Water Works Association” certification exams for Grades II, III, and IV.

WTE 74  Advanced Plant Operations: Water Treatment and Reclamation  (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in WTE 54
Advanced water quality control and treatment with emphasis given to state regulations, EPA regulations, advanced mathematics and chemistry. Particular attention will be given to in depth examination of treatment plant processes and the enforcement of the Surface Water Treatment Rule, Total Coliform Rule, Interim Enhanced Surface Water Treatment Rule, Long Term 1 Enhanced Surface Water Treatment Rule, Long Term 2 Enhanced Surface Water Treatment Rule, Disinfection/Disinfection by Product Rule and Title 22 requirements for recycled water. This course will be helpful to those preparing for Grade III and IV drinking water examinations.

WTE 97  Water Technology Education Topics  (.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Topics in Water Technology Education. See Class Schedule for specific topic offered. Course title will designate subject covered.

Welding (WELD)
Contact the Trade and Industry Department for further information.
760-744-1150, ext. 2545
Office: T-102A
Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAMS OF STUDY

Entry-Level Gas Tungsten Arc Welding (CP)
Introduction to GTAW, GMAW, and SMAW welding process with concentration on GTAW. Basic math, print reading, and layout skills and knowledge will be taught to prepare students for entry-level employment as a GTAW welder.

CERTIFICATE OF PROFICIENCY

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Units</th>
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<tbody>
<tr>
<td>IT/WELD 108</td>
<td>Technical Mathematics 3</td>
</tr>
<tr>
<td>WELD 100</td>
<td>Welding I 3</td>
</tr>
<tr>
<td>WELD 115</td>
<td>Gas Tungsten Arc Welding 3</td>
</tr>
<tr>
<td>WELD 135</td>
<td>Print Reading for Welders 3</td>
</tr>
<tr>
<td>WELD 160</td>
<td>Metal Layout for Fabrication 3</td>
</tr>
</tbody>
</table>

TOTAL UNITS  15

Entry-Level Shielded Metal Arc Welding (CP)
Provides the skills necessary for entry-level employment as a shielded metal arc welder.

CERTIFICATE OF PROFICIENCY

<table>
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<tr>
<td>WELD 100</td>
<td>Welding I 3</td>
</tr>
<tr>
<td>WELD 110</td>
<td>Shielded Metal Arc Welding 3</td>
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<tr>
<td>WELD 135</td>
<td>Print Reading for Welders 3</td>
</tr>
<tr>
<td>WELD 160</td>
<td>Metal Layout for Fabrication 3</td>
</tr>
</tbody>
</table>

TOTAL UNITS  15

Welding Technology (AS, CA)
Provides training for a career in the field of welding. Following the study of basic welding processes, the student may elect to concentrate in one or more of the basic welding processes and to prepare for the industrial certification test.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

<table>
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<tr>
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<td>Welding I 3</td>
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<td>WELD/IT 108</td>
<td>Technical Mathematics 3</td>
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<td>WELD 110</td>
<td>Shielded Metal Arc Welding 3</td>
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<tr>
<td>WELD 115</td>
<td>Gas Tungsten Arc Welding 3</td>
</tr>
<tr>
<td>WELD 120</td>
<td>Gas Metal Arc and Flux Cored Arc Welding 3</td>
</tr>
<tr>
<td>WELD 135</td>
<td>Print Reading for Welders 3</td>
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<td>WELD 140</td>
<td>Qualification of Welders 3</td>
</tr>
<tr>
<td>WELD 145</td>
<td>Pipe Welding 3</td>
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<tr>
<td>WELD 150</td>
<td>Welding Inspection 3</td>
</tr>
<tr>
<td>WELD 160</td>
<td>Metal Layout for Fabrication 3</td>
</tr>
</tbody>
</table>

TOTAL UNITS  30

COURSE OFFERINGS

WELD 100  Welding I  (3)
1 ½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Introduction to safe practices, setup, and operation of Shielded Metal Arc Welding, Gas Tungsten Arc Welding, Flux Core Arc Welding, and Gas Metal Arc Welding.
WELD 108  Technical Mathematics  (3)
3 hours lecture
*Note:* Cross listed as IT 108
Transfer acceptability: CSU
Methods and experience in defining and solving mathematical problems in industrial technology. Special emphasis will be given to the application of these basic processes to the solution of the unique mathematical problems encountered in the areas of architecture, automotive, drafting, machine, welding, and woodworking technology.

WELD 110  Shielded Metal Arc Welding  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Welding steel plate in all positions using the Shielded Metal Arc Welding process.

WELD 115  Gas Tungsten Arc Welding  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Safe setup, operation, and maintenance of Gas Tungsten Arc Welding equipment. Welding stainless steel, carbon steel, and aluminum in the flat and horizontal positions.

WELD 117  Geometric Dimensioning and Tolerancing  (2)
1 hour lecture - 3 hours laboratory
*Note:* Cross listed as DT/ENGR 117
Transfer acceptability: CSU
An introduction to geometric dimensioning and tolerancing ASME Y14.5-2009. Students will learn to identify, use appropriate geometric symbols and techniques of geometric dimension, and produce industrial quality drawings. Students will also learn to measure and verify geometric dimensions and tolerances of manufactured items.

WELD 120  Gas Metal Arc and Flux Cored Arc Welding  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Gas Metal Arc Welding steel and aluminum sheet metal, and plate with short arc and spray arc technique. Flux Cored Arc Welding steel plate in flat, horizontal, and vertical positions.

WELD 135  Print Reading for Welders  (3)
3 hours lecture
Transfer acceptability: CSU
Line interpretation, sketching, bill of materials, structural shapes, welding symbols, joint types, weld types, and metric conversions.

WELD 140  Qualification of Welders  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Designed to train the students to be familiar with the provisions of the various welding standards and codes. Supervised training is provided so that students will be able to qualify for certification on any code or standard.

WELD 145  Pipe Welding  (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Provides a thorough technical understanding of pipe welding nomenclature, weld quality, and pipe fit-up and welding procedures. Provides training to develop welding skills necessary to make high quality welds on steel pipe in the 5G, 2G and 6G positions.

WELD 150  Welding Inspection  (3)
3 hours lecture
Transfer acceptability: CSU
Designed to improve understanding of the role, duties, and technical requirements of welding inspectors. The course will cover topics in fundamentals of welding, welding symbols, documents used in welding, codes, specification, standards, weld joint geometry, destructive testing methods, nondestructive testing methods, discontinuities, and visual inspection of welds. Provides knowledge useful for passing the American Welding Society's Certified Welding Inspector's exam.

WELD 151  CAD/CAM Machining  (3)
1½ hours lecture - 4½ hours laboratory
*Note:* Cross listed as DT/ENGR 151
Transfer acceptability: CSU
Hands-on operation of importing three-dimensional solid and parametric three-dimensional models into CAD/CAM operations.

WELD 160  Metal Layout for Fabrication  (3)
2 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
Provides students with knowledge of basic layout, fitup, fabrication, and safe operation of shop equipment. Parallel line, radial line, and triangulation layout will be taught. Students will work from drawings or sketches to prepare, form, or cut multiple parts for assembly.

WELD 165  Visual Inspection Level I  (1, 2)
½ or 1 hour lecture - 2 or 3 hours laboratory
Transfer acceptability: CSU
Teaches visual inspection of welds, the equipment used during visual inspection, proper inspection procedure, and common discontinuities in the surface of a weld.

WELD 169  Manufacturing I Introduction to MasterCAM  (3)
1½ hours lecture - 4½ hours laboratory
*Note:* Cross listed as DT 190/ENGR 190/IT 190
This course will introduce the students to MasterCAM and 2D and basic 3D modeling. Students will receive instructions and drawings of parts requiring 2- or 3-axis machining. Students will design, model, set-up and run their parts on various machines, including plasma cutters, water jet cutters and milling machines.

WELD 197  Welding Technology Topics  (5 - 3)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
Topics in Welding Technology. See Class Schedule for specific topic offered. Course title will designate subject covered.
Women’s Studies

Contact the Behavioral Sciences Department for further information.
760-744-1150, ext. 2650
Office: MD-257

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages).

PROGRAM OF STUDY

Women’s Studies (AA)

This major offers the student an opportunity to study women and their contributions from a female perspective. It also provides intensive, interdisciplinary lower-division preparation necessary for pursuing advanced coursework in Women’s Studies. Transfer students should consult the four-year college or university catalog for specific requirements.

A.A. DEGREE MAJOR

<table>
<thead>
<tr>
<th>Program Requirements</th>
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<tr>
<td>SOC 115</td>
<td>Introduction to Women’s Studies</td>
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Electives (Select a minimum of 15 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 165</td>
<td>Native Women in the Americas</td>
<td>3</td>
</tr>
<tr>
<td>COMM 105</td>
<td>Race, Gender and Media Effects</td>
<td>3</td>
</tr>
<tr>
<td>ENG 280</td>
<td>Women and Literature</td>
<td>3</td>
</tr>
<tr>
<td>HIST 130</td>
<td>Women in United States History</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC 125</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 130</td>
<td>Psychology of Women</td>
<td>3</td>
</tr>
<tr>
<td>SOC 135</td>
<td>Gender and Society</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/SOC 145</td>
<td>Psychology and Sociology of Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 18

Recommended Electives: ENG 100 and 202 with emphasis in Women’s Studies issues.
Noncredit Courses and Certificates

Noncredit education fulfills the mandate to California’s Community Colleges to provide noncredit courses designed to meet the special needs and capabilities of those students who do not desire or need to obtain unit credit. These courses provide developmental, occupational and other general educational opportunities as may be deemed necessary to provide for the civic and liberal education of the citizens of the community. All classes are taught by qualified instructors. The program is offered by the Division of Career, Technical, and Extended Education Division.

The State has defined the following specific five categories for funding: Elementary and Secondary Basic Skills, English as a Second Language, Immigrant Education, Education Programs for Persons with Substantial Disabilities, and Health and Safety Education.

Although some classes are tailored for a specific student constituency, all classes are open to the public. No enrollment fees are charged for the noncredit classes. Students who take noncredit classes on the San Marcos campus or at the Escondido Education Center will be required to pay health fees and parking fees.

Noncredit certificates of completion are offered in Adult Basic Education and in English as a Second Language.

Certificate Requirements
N ABED 901  Literacy/Adult Basic Education I
N ABED 902  Literacy/Adult Basic Education II

COURSE OFFERINGS

N ABED 901 Literacy/Adult Basic Education I
96 to 192 hours lecture
This course is designed to help learners to improve reading and writing skills, computational skills, critical thinking skills; to develop basic computer skills; to develop skills for the workplace; and to prepare for future educational opportunities. Learners participate in an individually prescribed program which includes classrooms activities, independent activities, collaborative learning, and mediated learning.

N ABED 902 Literacy/Adult Basic Education II
96 to 192 hours lecture
This course is designed to help learners to improve reading and writing skills, computational skills, critical thinking skills; to develop basic computer skills; to develop skills for the workplace; and to prepare for future educational opportunities. Learners participate in an individually prescribed program which includes classrooms activities, independent activities, collaborative learning, and mediated learning.

Art (N ART)

N ART 951 Advanced Ceramic Techniques for Older Adults
3 hours lecture - 3 hours laboratory
This course will cover advanced techniques of hand building and wheel working. The students will work with clay as well as a broad range of glazing and firing processes, helping to maintain physical dexterity and mental acuity for older adults.

Apprenticeship (N AP PRE)

COURSE OFFERINGS

N AP PRE 901 Introduction to the Construction Trades Industry
23-34 hours lecture - 20-40 hours laboratory
This course provides participants an introduction to the construction trades industry, with specific emphasis on the electrical industry, sheet metal industry, and carpentry, as a basis for working in all other trades. After successful completion, participants will have general knowledge and skills needed to choose and prepare for advanced training in the pre-apprenticeship program and then to seek further knowledge in a state-approved apprenticeship program.

N AP PRE 902 OSHA 10 Certification
10 hours lecture
OSHA 10-Hour Construction is a part of an online OSHA outreach program that results in a valid DOL/OSHA 10-Hour Card. This OSHA 10 online training course teaches recognition, avoidance, abatement and prevention of safety and health hazards in workplaces. This course also provides information regarding workers’ rights, employer responsibilities and how to file a complaint. It was also designed to help workers stay up-to-date with their OSHA safety requirements.

N AP PRE 903 Red Cross Adult First Aid/CPR/AED
5-7 hours lecture - 5-7 hours laboratory
This course will prepare students to recognize and care for a variety of first aid, breathing, and cardiac emergencies involving adults and meets OSHA workplace requirements. These courses are designed for anyone with little or no medical training who needs a course completion card (CPR/AED First Aid) for job, regulatory (e.g., OSHA), or other requirements. These courses can also be taken by anyone who wants to be prepared for an emergency in any setting. After completing the online portion, students will attend a structured, Instructor-led, hands-on session that focuses on meaningful coaching, skills practice, and skills testing. This course will prepare you to recognize and care for a variety of first aid, breathing, and cardiac emergencies involving adults and meets OSHA workplace requirements.

N AP PRE 906 Essential Skills
8 hours lecture - 8 hours laboratory
Essential skills will address the following competencies as keys to the success of workers: Communication; Networking; Enthusiasm and Attitude; Teamwork; Problem Solving and Critical Thinking; and Professionalism.

N AP PRE 908 Construction Math
48-54 hours lecture - 16-24 hours laboratory
This course provides the participants with an overview of the mathematics used in the industry. It includes but is not limited to: basic arithmetic operations, integers, fractions, decimals, percents, ratio and proportion, basic geometric concepts and measurement, problem-solving techniques, and an introduction to algebraic thinking.

N AP PRE 909 Construction Print Reading
6-16 hours lecture - 6-16 hours laboratory
This course will cover the fundamental functions and structure of construction prints. Course content will include construction drawings, line symbols, hand sketching, and pictorial drawings.

N AP PRE 910 Tools
24 hours lecture - 24 hours laboratory
This course provides the participants with an overview of measuring, marking, layout, hand, power, and fastening tool use and safety considerations when using these tools.
N AP PRE 920 Carpenter Hands On Skills
10-24 hours lecture - 15-72 hours laboratory
Carpentry Hand Skills continues where N-AP-PRE 901 left off in carpentry topics. This course will cover carpentry trade skills and develop advanced skills in carpentry trades with the use of project based learning.

N AP PRE 930 Electrician Hands On Skills
20-20 hours lecture - 15-30 hours laboratory
Introduction to the electrical industry, with emphasis on jobsite safety, basic conduit bending, National Electric Code (NEC), sexual harassment, introduction to blueprints, tools and their use. Particular attention will be given to fastening devices, basic mathematics, resistance, voltage, power in DC series, parallel, and combination circuits.

N AP PRE 940 Sheet Metal Hands On Skills
15-30 hours lecture - 15-20 hours laboratory
This course provides an introduction to the basic principles, processes, drawings and materials used in the sheet metal industry.

Basic Education (N BASC)

Contact the Occupational & Noncredit Programs Department at 760-744-1150, ext. 2155 for further information and registration procedures.

COURSE OFFERINGS

N BASC 900 Literacy/Adult Basic Education
64-96 hours lecture
This course is designed to help learners improve basic reading skills, critical thinking skills, computational skills, and writing skills; to develop skills for the workplace; and to prepare for future educational opportunities. Learners participate in an individually prescribed program which includes classroom activities, independent activities, collaborative learning, and mediated learning.

N BASC 903 Supervised Tutoring for Access Technology
16 hours laboratory
This course provides supplemental instruction for individual students to improve their knowledge and abilities with access technology. Learners participate in a program which includes lab activities, independent activities and tutor-assisted learning.

N BASC 904 Supervised Tutoring for Math
64-96 hours laboratory
This course provides supplemental instruction for individual students to improve their knowledge and abilities in mathematics. Learners participate in a program which includes classroom and lab activities, independent activities, collaborative learning, mediated learning and tutor-assisted learning.

N BMGT 954 Business Canvas
12-32 hours lecture
To fast track your start up business, identify the nuts-and-bolts of a working business plan that you grow with as you develop your business. The Business Canvas will keep you on-point and focused as you achieve your goals and scale your start-up.

N BMGT 986 Project Management: Integration & Scope Management
32 hours lecture
This course trains students on the integration of processes and activities within project management’s 5 Process Groups. Students will be exposed to choices related to resource allocation, competing objectives, managing inter-dependencies, and across key Knowledge Areas.

N BMGT 987 Microsoft Project Management
32 hours lecture
Hands-on application with Microsoft Project, a comprehensive software package that includes the processes of initiating, planning, executing, controlling, and closing a project to meet project goals. Students will be exposed to PM tools and techniques for scheduling, planning, updating, and change control.

N BMGT 989 Leadership and Conflict Resolution
18 hours lecture
This course offers an in-depth study of the human relations side of Project Management. In this course, students will learn about organization theory, leadership and conflict resolution, and effective communication.

N BMGT 990 Capstone; Bringing it all together
36 hours lecture
This course offers an intense review of the Project Management Body of Knowledge (PMBOK) for purposes of preparing for one of the Project Management certification exams. This course is a review of key knowledge areas and processes, and is intended for individuals who have experience in the field of project management or who have completed PM specific course work.

Career and Technical Education (N CTED)

See (also) Tutoring on the next page.

N CTED 901 Community Emergency Response Team
(Formerly N HSED 901)
24-30 hours lecture
Provides instruction and basic skills to private citizens which enable them to assist first responders and other community members in the aftermath of a disaster.

Citizenship (N CTZN)

Contact the English as a Second Language Department for further information and registration procedures at 760-744-1150, ext. 2272/8114.

COURSE OFFERINGS

N CTZN 900 Citizenship
18 to 48 hours lecture
A general survey of U.S. history, government and civics, including culture, institutions, and use of community services and agencies. Designed to assist eligible individuals to become United States citizens. Includes practice of oral/aural/literacy skills in English necessary to pass an oral and written test with a United States Citizenship and Immigration Services official.

Disability Education (N DSAB)

Contact the Disability Resource Center at 760-744-1150, ext. 2375 for further information and registration procedures.

COURSE OFFERINGS

N DSAB 943 Access Technology for Vision Loss
48-54 hours lecture
This course provides additional support for students with low vision or blindness as they learn to use access technology. Learners participate in a program which includes lab activities, assistive technology assessment and training.

N DSAB 901 Independent Living Skills
48-150 hours laboratory
5 hours lecture/laboratory
This course will provide independent living skills for the developmentally delayed, the adult acquired brain injury population, and the adventitiously blind population and stresses the practical application of basic skills and their use in daily life situations. Certain aspects of the course may be adapted to meet the specific needs of the student population being taught.
English as a Second Language (N ESL)

Contact the English as a Second Language Department for further information and registration procedures at 760-744-1150, ext. 2272/8114.

English as a Second Language Noncredit Certificate of Completion

This sequence of four courses is designed to equip non-native speakers of English with the listening, speaking, reading and writing skills at the low-intermediate level in English needed for employment or to successfully complete college level courses for a career or for associate or transfer degree programs. An assessment process determines appropriate initial placement in the sequence. In order to earn a certificate, students must successfully complete N ESL 304. The sequence is articulated with credit vocational English as a Second Language courses that prepare students to enter six recognized career fields and with degree applicable credit reading and composition courses.

Certificate Requirements

N ESL 901  Beginning ESL I
N ESL 902  Beginning ESL II
N ESL 903  Beginning ESL III
N ESL 904  Intermediate ESL I

COURSE OFFERINGS

N ESL 909  English Pronunciation I (Formerly N ESL 9)
48-54 hours lecture
Development of students' ability to identify and replicate English intonation, stress patterns, and certain common word combinations as they are pronounced in informal speech.

N ESL 910  English Pronunciation II (Formerly N ESL 10)
48-54 hours lecture
Identifies standard spoken American English intonation, stress and rhythm sounds. Provides practice to retrain the speech organs to produce those sounds. Emphasis on self-correction of speech problems.

N ESL 912  ESL Grammar Skills I (Formerly N ESL 12)
48-54 hours lecture
Instruction in editing of written material by applying basic conventions of standard written English.

N ESL 913  ESL Grammar Skills II (Formerly N ESL 13)
48-54 hours lecture
Instruction in editing of written material by applying intermediate-level conventions of standard written English.

N ESL 914  ESL Grammar Skills III (Formerly N ESL 14)
48-54 hours lecture
Instruction in editing of written material by applying advanced conventions of standard written English.

N ESL 945  Reading and Writing Essentials I (Formerly N ESL 45)
80-90 hours lecture
A beginning course in reading and writing academic English for students whose first language is not English. Offers instruction in reading skills, basic grammar usage, paragraph organization and development, and appropriate basic vocabulary for academic reading and writing.

N ESL 955  Reading and Writing Essentials II (Formerly N ESL 55)
80-90 hours lecture
An intermediate course in reading and writing academic English for students whose language is not English. Introduces analytical skills and critical thinking through reading, word level, and sentence level grammar as it applies to academic writing, paragraph organization and development, and appropriate vocabulary for academic writing.

N ESL 901  Beginning ESL I (Formerly N ESL 301)
48 to 192 hours lecture
Listening, speaking, reading, and writing skills for non-native speakers of English at the low-beginning level.

N ESL 902  Beginning ESL II (Formerly N ESL 302)
48 to 192 hours lecture
Listening, speaking, reading, and writing skills for non-native speakers of English at the mid-beginning level.

N ESL 903  Beginning ESL III (Formerly N ESL 303)
48 to 192 hours lecture
Listening, speaking, reading, and writing skills for non-native speakers of English at the high-beginning level.

N ESL 904  Intermediate ESL I (Formerly N ESL 304)
48 to 192 hours lecture
Listening, speaking, reading, and writing skills for non-native speakers of English at the low-intermediate level.

N ESL 922  Beginning Conversation (Formerly N ESL 322)
32 to 64 hours lecture
Conversation skills for non-native speakers of English at the mid and high beginning level.

N ESL 961  Beginning Level Listening and Speaking I (Formerly N ESL 361)
32 to 80 hours lecture
Listening and speaking for non-native speakers of English at the low-beginning level.

N ESL 962  Beginning Level Listening and Speaking II (Formerly N ESL 362)
32 to 80 hours lecture
Listening and speaking for non-native speakers of English at the mid-beginning level.

N ESL 963  Beginning Level Listening and Speaking III (Formerly N ESL 363)
32 to 80 hours lecture
Listening and speaking for non-native speakers of English at the high beginning level.

N ESL 964  Intermediate Level Listening and Speaking (Formerly N ESL 364)
32 to 80 hours lecture
Listening and speaking for non-native speakers of English at the intermediate level. This course focuses on listening and speaking skills required in a work or academic environment. Included are listening for the main idea and supporting details in academic and non-academic discourse and giving short work or school-related presentations.

N ESL 972  Basic ESL Skills (Formerly N ESL 372)
36-96 hours lecture
Basic literacy and conversation development for non-native speakers of English.

N ESL 983  Computer Literacy for ESL (Formerly N ESL 383)
48 to 64 hours lecture
Basic computer literacy and skills development for non-native speakers of English.

N ESL 994  Career Track ESL (Formerly N ESL 394)
16 to 18 hours lecture - 48 to 162 hours laboratory
English as a Second Language instruction in preparation for a certificate or degree program. Self-paced modules provide an introduction to complementary language and academic skills necessary to succeed in a career or extended education program. Includes reading, writing, speaking, listening, and introductory to advanced computer literacy skills.

N ESL 995  Reading and Writing Essentials III (Formerly N ESL 56)
80-90 hours lecture
An intermediate course in reading and writing academic English for students whose language is not English. Introduces analytical skills and critical thinking through reading, word level, and sentence level grammar as it applies to academic writing, paragraph organization and development, and appropriate vocabulary for academic writing.
**Geography (N GEOG)**

**COURSE OFFERINGS**

**N GEOG 900 Introduction to Drone Safety and Applications**
48-54 hours laboratory
A survey of the regulations governing small unmanned aircraft systems (sUAS) operations and safety considerations. Existing and emerging trends of sUAS applications in various industries will also be discussed.

**Health and Safety Education (N HSED)**

See (also) Career and Technical Education (N CTED)
Contact the Occupational & Noncredit Programs Department at 760-744-1150, ext. 2284 for further information and registration procedures.

No current course offerings.

**Music (N MUS)**

See Music (MUS) for Credit Music Courses
Contact the Performing Arts Department at 760-744-1150, ext. 2316 for more information. See Music (MUS) for Credit Music Courses

**N MUS 948 Community Chorale for Older Adults**
48-54 hours laboratory
Limitation on Enrollment: Enrollment subject to audition
This ensemble for the older adult rehearses and performs repertoire from the standard oratorio and choral literature. Emphasis is placed on stylistic and historical performance practices, vocal technique, and musicianship. Performances are combined with the Palomar Chorale and are held on campus and in the community.

**N MUS 951 Community Concert Band for Older Adults**
48-54 hours laboratory
Limitation on Enrollment: Enrollment subject to audition
This ensemble for the older adult rehearses and performs classics from the standard concert band literature. Emphasis is placed on stylistic and historical performance practices, instrumental techniques, and musicianship. Performances are combined with the Palomar Concert Band and are held on campus and in the community.

**N MUS 952 Community Jazz Ensemble for Older Adults**
48-54 hours laboratory
Limitation on Enrollment: Enrollment subject to audition
This ensemble for the older adult rehearses and performs standard stage band literature, with opportunities for students to arrange and compose for the band, and rehearse the ensemble. Emphasis is placed on stylistic and historical performance practices, instrumental and vocal techniques, and musicianship. Performances are combined with the Palomar Jazz Ensemble and are held on campus and in the community. Attendance at all scheduled performances is required.

**N MUS 955 Community Brass Ensemble for Older Adults**
48-54 hours laboratory
Limitation on Enrollment: Enrollment subject to audition
This ensemble for the older adult rehearses and performs chamber music literature for brass. Emphasis is placed on stylistic and historical performance practices, brass-specific instrumental techniques, and musicianship. Performances are combined with the Palomar Brass Ensemble and are held on campus and in the community.

**N MUS 972 Community Repertory Jazz Band for Older Adults**
48-54 hours laboratory
Limitation on Enrollment: Enrollment subject to audition
This ensemble for the older adult rehearses and performs professional level materials for the large jazz ensemble. Emphasis is placed on stylistic and historical performance practices, instrumental and vocal techniques, and musicianship. Performances are combined with the Palomar Repertory Jazz Ensemble and are held on campus and in the community.

**N MUS 998 Community Symphony Orchestra for Older Adults**
48-54 hours laboratory
Limitation on Enrollment: Enrollment subject to audition
This ensemble for the older adult rehearses and performs classics from the standard symphony orchestra literature including works for string and full ensembles. Emphasis is placed on stylistic and historical performance practices, instrumental techniques, and musicianship. Performances are combined with the Palomar Symphony Orchestra and are held on campus and in the community.

**Photography (N PHOT)**

**N PHOT 916 Alternative Photographic Processes for Older Adults**
48-54 hours laboratory
A practical, hands-on survey of historical alternatives and contemporary variations to the modern standard photographic process. Silver, Ferric, Dichromate, and Photomechanical possibilities for self expression will be explored. Typical processes learned will include Van Dyke, Cyanotype, Platinum and Palladium, Kallitype, Bromoil, Collodion and gum printing.

**N PHOT 920 Getting to Know Lightroom for Older Adults**
24-27 hours lecture - 72-81 hours laboratory
Designed for older adults, this class will explore the capabilities and uses of the digital darkroom using the industry standard Adobe Lightroom. Students will learn to shoot and Photographic editing will include white balance, contrast, lens correction, sharpening and HSL adjustments. The principles asset management, naming conventions, importing, exporting digital image files. Photographic digital images will be corrected for tone, color balance, resolution and size and the learning path will employ the principles of image editing software to correct, improve and ready photographic digital images for digital output.

**N PHOT 950 Getting to Know Your Digital Camera for Older Adults**
Designed for older adults, the beginning principles and use of digital cameras. Understand how your digital camera works and what the menu selections mean. Learn to download image files to your computer, make basic editing changes and how to share your images via web, email and slide presentations. The aesthetics and technology of digital photography will be discussed in lecture and critique sessions of students assignments.

**Tutoring**

Contact the STAR Tutoring Center at 760-744-1150, ext. 2448 or go to the Palomar Tutoring Webpage at http://www2.palomar.edu/tutingservices/ for contact information.

**COURSE OFFERINGS**

**N BASC 901 Algebra Review**
24-48 hours lecture
Review of topics, skills and problem solving techniques from prealgebra, beginning algebra, intermediate algebra, college algebra and/or trigonometry based on individual student needs as determined by diagnostic tests. Intended for students who need to refresh their algebra and/or prealgebra skills prior to taking their next math class or to improve their math placement level on the math assessment test. Review concepts and problem solving techniques from beginning algebra, with emphasis on basic operations with signed number polynomials and linear functions.

**N BASC 902 Supervised Tutoring**
16 hours laboratory
This course provides supplemental instruction in academic subjects for individual students to improve their knowledge or abilities in the tutored subject.

**N CTED 905 Basic Tutoring Training**
16-32 hours laboratory
This course will teach college students to tutor other college students through lectures, discussions, video tapes, and practical experience.
Lawrence Hamilton Lawson  
English as a Second Language (FT)

Sara Yerushalmian, Ph.D.  
Psychology (PT)

Sara Beck  
Earth, Space and Environmental Sciences (PT)

Amy Caterina  
Media Studies (FT)

Wendy Gideon  
Biology (FT)

Jack Hook  
Criminal Justice (PT)

Ashlee Lain, Ph.D.  
Biology (PT)

Beatrice Manneh  
World Languages (FT)

Scott Nelson, Ph.D.  
World Languages (FT)

Matthew O’Brien, Ph.D.  
Psychology (FT)

Marta Toledo-Yildiz  
World Languages (PT)

Anastasia Zavodny  
Business (PT)

2017-2018 DISTINGUISHED FACULTY AWARD FOR EXCELLENCE IN TEACHING
Section 10  
Faculty and Emeriti

Academic Assignments

Note: In addition to the following list of full-time faculty, the Palomar College instructional programs are also supported by a great number of qualified part-time faculty.

The year indicated after each employee's name is the year first appointed to the Palomar College permanent academic staff.

B.A., The Autonomous University of Baja California

A.A., Palomar College  
B.A., Ashford University  
Child Development Site Supervisor Permit

B.S., University of Wyoming  
M.Ed., Azusa Pacific University

Aguilera, Anna V. (2005) Extended Opportunity Programs and Services  
B.A., University of California, Irvine  
M.S., California State University, Long Beach

B.A., St. Mary's College of California, Moraga  
M.A., San Diego State University  
Ph.D., University of California, San Diego

Armistead, Alba-Maria (1984) Business Administration  
A.A., Palomar College  
B.S., Lasalle Catholic College  
M.A., San Diego State University

Backman, Jennifer A. (2011) English  
B.A., University of California, San Diego  
M.A., The University of Chicago  
Ph.D., Purdue University

Ballesteros-Perez, Ron (2012) Assistant Superintendent/Vice President, Finance and Administrative Services  
B.S.O.E. Wayland Baptist University  
M.A., Chapman University

Anderson, Jennifer (2016) Trade and Industry  
B.S., University of California, Davis  
M.F.A., San Diego State University

B.A., Augustana College  
B.S., Minnesota State University, Mankato  
M.S., Minnesota State University, Mankato  
Ph.D., Capella University

B.S., University of California, San Diego  
M.S., University of California, San Diego  
M.A., Dominican University, River Forest

B.A., University of California, San Diego  
M.S., Cornell University  
B.S., San Francisco State University  
M.S., San Diego State University  
E.D.D., San Diego State University
Blankenship-Williams, Lesley E. (2008) Life Sciences
B.A., University of California, Santa Cruz
M.S., University of California, San Diego
Ph.D., University of California, San Diego

B.A., University of California, San Diego
B.S., University of California, San Diego
M.A., San Diego State University
Ph.D., San Diego State University

B.A., University of California, San Diego
M.A., Arkansas State University

B.S., California State University, Hayward
M.S., California State University, Fullerton

Briceno, Jose C. (2015) Behavioral Sciences
B.A., California State University San Marcos
M.A., California State University San Marcos

Bruton, Carol M. (2007) Business Administration
B.A., Washington State University
M.B.A., University of Washington
M.P.A., University of Washington
Ph.D., University of Washington

A.S., Arapahoe Community College, Colorado
B.S., Colorado State University
M.S., National University
Ph.D., University of Iowa

Byrne, Madelyn R. (2000) Performing Arts
B.A., State University of New York, Stony Brook
M.M., Brooklyn College
D.M.A., City University of New York

Campo Griggs, Rita (2011) Design and Consumer Education
A.A., Cerritos College
B.A., San Diego State University

B.S., University of California, Santa Barbara
M.S., National University

A.A., Edison College
B.A., National University

Carpenter, A. Carey (1997) Life Sciences
B.S., University of California, Riverside
Ph.D., University of California, Berkeley

B.S., University of Wisconsin - Madison
M.A., The University of Texas at Austin
Ph.D., The University of Texas at Austin

Carrillo, Melinda D. (1978) Reading Services
B.A., California State University, Long Beach
M.S., California State University, Fullerton

Cassoni, Mary J. (2005) Business Administration
B.A., Boston University
M.B.A., San Diego State University

Caterina, Amy (2015) Media Studies
B.F.A, State University of New York College, Buffalo
M.F.A., California State University, Fullerton

B.S., California State University, Fresno
M.Ed., Azusa Pacific University

Cecere, Rosemarie L. (2001) Communications
B.A., University of California, San Diego
M.A., The New School

B.S., California State University, Los Angeles
M.S., California State University, Los Angeles

Chamberlin, Craig S. (2001) Mathematics
A.A., Palomar College
B.S., Northern Arizona University
M.S., Northern Arizona University

B.A., Xiamen University
M.A., University of Arizona

Cheung, Wing H. (2007) Earth, Space, and Aviation Sciences
B.A., University of California, Los Angeles
M.S., Indiana University
M.P.A., Indiana University

Christensen Gwin, Catherine (2016) Economics, History & Political Science
B.A., University of California, Los Angeles
Ph.D., University of California, Irvine

Christensen, Kimberly T. (2014) Mathematics
M.A., University of California, Santa Barbara
B.S., University of California, Santa Barbara

Clark, Mark D. (1996) Mathematics
B.S., California State University, Long Beach
M.S., California State University, Long Beach

B.A., California State University, Fullerton
M.A., University of California, Los Angeles

Cook-Whearty, Marquesa J. (2015) Speech Communication/Forensics/ASL
B.A., University of California, San Diego
B.S., California State Polytechnic University
M.A., San Diego State University

Cordova, Cynthia (2018) Counseling
A.A., Mira Costa College
B.A., California State University, San Marcos
M.S., California State University, Northridge
B.A., California State University, Long Beach
M.A., University of California, San Diego
Ph.D., University of California, San Diego

B.S., Azusa Pacific University
M.S., San Diego State University

A.A., Imperial Valley College
Child Development Master Teacher Permit

Cunningham, April D. (2013) Library
B.A., University of California, San Diego
M.A., University of California, Los Angeles
Ed.D., California State University, Fullerton

De Simone, Sarah M. (2013) Emergency Medical Education
B.A., The University of Louisiana
M.A., University of Phoenix

Deal, Michael S. (2013) Life Sciences
B.A. University of California, Santa Barbara
Ph.D., University of North Carolina

Deen, Patricia A. (1991) Earth, Space, and Aviation Sciences
B.S., California Lutheran College
M.S., San Diego State University

B.A., Rutgers University/Douglas College
M.S., San Diego State University

Dixon, Patricia Ann (1971) American Indian Studies
B.A., University of San Diego
M.A., University of San Diego

Dodson, Kenneth J. (2008) Graphic Communications
A.A., Palomar College

Doherty, Matthew (2017) Biology
B.S., Portland State University
M.S., San Diego State University

Donovan, Karen (2009)
B.S., University of Phoenix
M.S., California State University Dominguez Hills

Doyle Bauer, Alexandra E. (2016) Library
B.A., California State University, San Marcos
M.L.I.S., San Jose State University

Dudley, Michael (2017) Psychology
B.A., Wabash College
M.S., University of Kentucky
Ph.D., University of Kentucky

A.A., Palomar College
B.A., California State University, Long Beach
M.Ed., Azusa Pacific University

B.S., San Diego State University
M.Ed., Azusa Pacific University

B.G.S., University of Kansas
M.A., San Diego State University

B.S., New Mexico Institute of Mining and Technology
M.A., University of California, San Diego

B.A., University of Richmond
M.A., University of California, Riverside
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Epstein, Jeffrey H. (2015) Behavioral Sciences
B.A., University of California, Santa Cruz
M.A., American University
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Esteban, Jose L. (1989) Economics, History & Political Science
B.A., California State University, Fullerton
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M.A., San Diego State University

B.A., San Diego State University
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B.S., San Diego State University
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Farrell, Katy (2006) Reading
B.A., State University of New York at Genesco
M.L.S., Queens College City University of New York
M.A. University of California, San Diego

Faulkner, Margaret M. (2002) Performing Arts
B.F.A., University of Arizona
M.F.A., University of Iowa
Ph.D., Texas Woman's University

Fedon, Anthony R. (2013) Trade and Industry Eminence in the Field

Feld, Erin C. (2011) Reading Services
B.A., Temple University
M.A., San Diego State University
M.A., San Diego State University

Fent, James A. (2013) Behavioral Sciences
B.S., Loma Linda University
M.S., University of La Verne

B.A., University of Colorado
M.S., San Diego State University
Fernandez, Jose J. (1997) Counseling  
B.A., Willamette University  
M.S., Western Oregon State College  

Figg, Sean A. (2013) Earth, Space and Aviation Sciences  
B.S., University of Minnesota  
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B.S., University of Lowell  
Ph.D., University of California, Berkeley  

Finton, Michael J. (1999) Emergency Medical Education  
A.D.N., Santa Ana College  

Flores, Karmi (2018) Counseling  
B.S., San Diego State University  
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Forney, Craig A. (2007) Behavioral Sciences  
B.A., Fresno Pacific University  
M.A., The University of Chicago  
Ph.D., The University of Chicago  

Forney, Marlene G. (2008) Library  
B.A., Purdue University  
A.M.L.S., University of Michigan, Ann Arbor  

Fowler, Grace (2000) Graphic Communications  
B.M., Friends University  
M.S., National University  

Fritch, Margie. (2016) Dean, Instructional, Career, Technical, and Extended Education  
A.S., Grossmont College  
B.S., San Diego State University  
M.A.E., United States International University  

Fung, Tracy L. (2005) English as a Second Language  
B.A., California Polytechnic State University, San Luis Obispo  
M.A., San Diego State University  

Garcia Villa, Hector (2016) Physics and Engineering  
B.S., University of Barcelona  
M.A., University of Barcelona  

Gavin, Calvin One Deer (2000) Grant Funded Student Support Programs  
B.S., Illinois State University  
M.A., University of Phoenix  

Geetha, Natarajan (1995) Chemistry  
B.S., Madurai Kamaraj University  
M.S., Madurai Kamaraj University  
Ph.D., Indian Institute of Technology  

A.A., Mesa College  
B.A., Loma Linda University  
M.A., San Diego State University  

A.A., Foothill Community College  
B.S., California Polytechnic State University, San Luis Obispo  
M.S., California Polytechnic State University, San Luis Obispo  

B.S., San Diego State University  

Gideon, Wendy S. (2014) Life Sciences  
B.S., California Lutheran University  
Bachelor of Education, Simon Fraser University  
M.S., University of California, Davis  

Gilardi, James L. (1996) Life Sciences  
B.S., San Diego State University  
M.S., San Diego State University  
M.B.A., San Diego State University  

Glass, Lily (1999) Art  
B.F.A., Art Center College of Design  

Glassman, Joel W. (2011) Business Administration  
B.S., University of Illinois  
M.S., Kansas State University  

B.A., National University  
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B.A., Escuela Normal de Profesores, Paraguay  
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Gonzalez, Adrian (2013) Assistant Superintendent/ Vice President, Student Services  
B.A., University of California, Los Angeles  
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Gowen, Brent D. (1992) English  
B.A., University of California, San Diego  
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Green, Nicholas R. (2002) Computer Science and Information Systems  
A.A., Coconino Country Community College  
B.A., California State University, San Marcos  

B.A., California State University, Long Beach  
M.A., University of California, San Diego  
Ph.D., University of California, San Diego  

A.A., Southwestern College  
B.A., University of California, San Diego  
M.A., University of California, Santa Barbara  

B.A., University of Northern Colorado  
M.A., University of Northern Colorado  

B.A., University of California, San Diego  
Ph.D., University of California, San Diego  

Harris, Judy (2015) Interim Director, Health Services  
B.S.N., University of Maryland, Baltimore  
M.S.N., San Diego State University
Hernandez, Jessica (2018) Nursing Education
B.S.N., East Carolina University
M.S.N., East Carolina University

Hernandez, Michael (2013) Art
B.F.A., Emporia State University
M.F.A., Alfred University

O.A.D., Arizona Automotive Institute
B.S., University of Phoenix

B.A., University of California, Santa Cruz
M.A., San Diego State University

B.S., California Polytechnic State University, San Luis Obispo
M.S., Northwestern University

B.A., University of California, Riverside
M.A., University of California, Riverside
Ph.D., University of California, Riverside

B.A., California Baptist University
M.A., California State University, Fullerton

Hooper, Wayne (2013) Public Safety Programs
A.A., Palomar College
B.S., California State University, Long Beach

B.A., San Diego State University
M.A., Queen Mary University

Hudelson, Mark J. (1997) Art
B.A., University of California, Irvine
M.A., San Diego State University

B.S., San Diego State University
M.Ed., University of San Diego

Kim, Hwang Y. (2016) Art
B.F.A., San Diego State University
M.A., Queen Mary University of London
M.F.A., Queen Mary University of London

Ikenushi, Masako (2011) World Languages
B.A., University of Southern California
M.A., University of Southern California
Ph.D., University of California, Irvine

B.A., San Diego State University
M.A., San Diego State University
Ph.D., San Diego State University/Claremont Graduate University

B.A., Austin College
M.A., Rice University

Jain, Catherine M. (2000) Earth, Space, and Aviation Sciences
B.S., California Polytechnic State University, San Luis Obispo
M.A., San Diego State University

Ph.D., University of California, Davis

Jarvinen, Jason (2017) Cooperative Education
B.A., University of California, San Diego
M.A., University of San Diego

B.A., University of California, San Diego
M.A., University of California, San Diego
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Johnson, Christopher S. (1992) Economics, History & Political Science
B.A., California Polytechnic State University, San Luis Obispo
M.A., University of California, San Diego

Jones, Robert N. (1997) Mathematics
A.A., Grossmont College
B.A., San Diego State University
M.A., San Diego State University

B.F.A., University of Michigan
M.F.A., Massachusetts College of Art

Kahn, Jack (2013) Assistant Superintendent/Vice President, Instruction
B.S., Arizona State University
M.S., San Jose State University
Ph.D., University of Buffalo

Kailikole, Kathryn (2016) Dean, Instructional, Mathematics and the Natural and Health Sciences
B.A., University of California, Berkeley
M.A., University of California, Santa Cruz
Ed.D., University of California at San Diego

Kardel, William S. (2015) Earth, Space, and Aviation Sciences
B.S. Ed., Northern Arizona University
M.S., The University of Arizona

Kearny, Kevin P. (2013) English
B.A., Union College
M.A., University of California, Santa Barbara
Ph.D., University of California, Santa Barbara

Kelber, Barbara N. (1994) English
B.A., University of San Diego
M.A., University of California, Riverside
Ph.D., University of California, Riverside

Kelp-Stebbins, Katherine L. (2014) English
B.A., Wesleyan University
M.A., University of California, Santa Barbara
Ph.D., University of California, Santa Barbara
Kerckhove, Lee F. (1997) Behavioral Sciences
B.A., University of California, San Diego
M.A., Loyola University
Ph.D., Loyola University

Krause, Sara K. (2015) Life Sciences
B.S., Cornell University
Ph.D., University of California, Davis

Kurokawa, Paul G. (2011) Performing Arts
B.A., California State University, Long Beach
M.F.A., University of California, Irvine

Lane, Mark R. (1997) Earth, Space, and Aviation Sciences
B.A., San Diego State University
M.S., San Diego State University

B.A., University of California, San Diego
M.S., California State University, San Marcos

B.S., University of California, Berkeley
M.A., California State University, Fullerton

B.A., Sonoma State University
M.A., Monterey Institute of International Studies

Lechusza Aquallo, Alan (2009) American Indian Studies
B.M.A., California State University, Long Beach
M.F.A., University of California, Irvine
Ph.D., University of California, San Diego

Lee, Adrianne (2017) Director, Financial Aid, Veterans, and Scholarship Services
A.A., Southwestern Community College
B.A., Alliant International University
M.S., National University

Lesyna, Kalyna K. (2001) Behavioral Sciences
B.A., San Diego State University
M.A., University of California, San Diego

B.S., San Diego State University
M.A., San Diego State University

B.A., Fairmont State College
J.D., West Virginia University

Lindsay, Cory (2017) Biology
B.S., Wayne State College
Ph.D., University of Florida, Gainesville

Lineback, Monique (2017) Nursing Education
A.A., Palomar College
B.S.N., University of California, San Diego
M.S., University of San Diego
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Lockett, David M. (1990) Behavioral Sciences
B.A., University of Hawaii-Hilo
M.A., University of Hawaii-Manoa
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B.A., San Diego State University
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Lopez, Natalie M. (2016) Library
B.A., California State Polytechnic University, Pomona
M.L.S., San Jose State University

Lovelace, Sierra S. (2013) Counseling
A.A., Mira Costa College
B.B.A., National University
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A.A., Los Angeles City College
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Lowry, Christopher R. (2001) Speech Communication/Forensics/ASL
A.A., Orange Coast College
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Luettringhaus, Srisuda (1999) Early Childhood Education Center
B.S., Chulalongkorn University, Bangkok, Thailand
M.A., The University of New Mexico
Child Development Site Supervisor Permit

Lundell, Michael J. (2016) English
Ph.D., University of California, San Diego

Lutz, Dennis C. (1990) Design and Consumer Education
A.A., Palomar College
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Ly, Pearl (2018) Dean, Instructional, Social and Behavioral Sciences
B.A., University of Bombay, India
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Madan, Nimoli (1997) English as a Second Language
B.A., University of Bombay, India
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Magnuson, Kendyl (2012) Director, Enrollment Services
B.A., Winona State University
M.S., University of Wisconsin, La Crosse
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B.A., San Diego State University
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Martin-Klement, L. Jackie (1997) Business Administration
B.A., Bowling Green State University
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Martinez, Martha (1996) Mathematics
A.A., Palomar College
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B.A., University of California, San Diego
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McCann, Sylvie (2007) Early Childhood Education Center
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McKinnon, Christina M. (2016) Extended Opportunity Programs & Services
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McLellan, Kevin F. (1990) Speech Communication/Forensics/ASL
American Sign Language Credential

Mead, Patriciaann J. (1997) Performing Arts
B.S., State University of New York, Brockport
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Mendoza, Mary E. (2106) Speech Communications/Forensics/American Sign Language
A.A., San Diego Community College
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Meske, David (2018) Computer Science and Information Technology
B.S., California State University, Bakersfield
M.P.A, California State University, Bakersfield
Ph.D., University of La Verne

A.B., San Diego State University
M.A., San Diego State University
M.S., Rensselaer, New York

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M.S., San Diego State University

B.S., University of California, Riverside
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Miller, David (2017) Public Safety Programs
A.S., San Diego Community College District
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A.A., Allan Hancock College
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Mobilia, Anne-Marie (2001) Behavioral Sciences
B.A., University of California, Irvine
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Morris, Katie K. (2011) Counseling Services
B.A., San Diego State University
M.S., San Diego State University

Morrissette, Roger N. (2001) Behavioral Sciences
B.A., Plymouth State University
M.A., San Jose State University
Ph.D., University of California, Los Angeles

B.S., Wayne State University
M.S., Wayne State University
M.A., Michigan State University

Moyano, Larry (2017) Counseling
A.A., Southwestern College
A.S., Southwestern College
B.A., California State University, San Marcos
M.A., San Diego State University

Mudge, Benjamin (2015), Counseling
B.S., University of La Verne
M.A., University of Redlands

M.F.A., University of California, Irvine
Mumford, Michael V. (1990) Mathematics
B.A., Humboldt State University
M.S., Colorado State University

Nakajima, Takashi (1990) Physics and Engineering
B.A., University of California, Santa Cruz
M.S., San Diego State University

B.A., California State University, Chico
M.A., California State University, Chico
M.A., The University of North Carolina at Chapel Hill
Ph.D., The University of North Carolina at Chapel Hill

B.S., Ohio University
M.S., San Diego State University

Nguyen, Chuong (1990) Mathematics
B.S., Portland State University
M.S., Portland State University

Programs and Services
B.A., University of San Diego
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Nunez, Rosa Elvia (1990) Counseling
A.B., San Diego State University
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B.A., Eckerd College
M.F.A., Claremont Graduate University

B.A., California State University San Marcos
M.A., California State University San Marcos
M.A., Claremont Graduate University
Ph.D., Claremont Graduate University

B.S., University of Texas, Austin
M.A., San Diego State University

O’Callaghan, Dana M (2014) Counseling
B.A., University of California, Riverside
M.A., Pepperdine University
Ph.D., University of North Texas

B.A., State University of New York, Stony Brook
Ph.D., City University of New York

Ordille, Henry P. (2005) Emergency Medical Education
A.A., Atlantic Community College
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Pagni-Kiefer, Lorraine (2015) Nursing Education
B.S., California State University, Dominguez Hills
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Panish, Jon (2000) English
B.A., University of California, Los Angeles
M.A., University of Iowa
Ph.D., University of California, Irvine

Paranthaman, Lakshmi (2018) Counseling
B.B.A., College of William and Mary
M.B.A., University of California, Los Angeles
J.D., University of Virginia

Payn, Lillian S. (1997) Graphic Communications
B.A., University of Arizona
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M.Ed., Utah State University
Ph.D., Capella University

A.S., Victor Valley College
B.A., California State University, Fullerton
M.A., California State University, Fullerton

Pedroza, Jose Carlos C. (2005) World Languages
B.A., San Diego State University
M.A., San Diego State University

and Information Systems
B.A., Illinois Institute of Technology
M.A., University of Phoenix

Peterson, Morgan A. (1994) Public Safety Programs
B.A., Golden Gate University, San Francisco
M.S., Dominican College, San Rafael
Ed.D., University of San Francisco

Pince, Nancy J. (2004) Nursing Education
B.S., Point Loma Nazarene University
M.S.N., Point Loma Nazarene University

Pope, Loren (2015)
B.S., California State University Fullerton
M.S., Liberty University

Powers, Kevin M. (2016) Trade and Industry
B.A., California State University, San Bernardino

Ritt, Travis W. (2011) Economics,
History & Political Science
B.A., University of Miami
M.S., University of Miami
M.A., Florida State University
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B.S., University of California, San Diego
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Robertson, Stephan R. (2016) Speech Communication/
Forensics/American Sign Language
B.A., University of Nevada, Las Vegas
M.A., California State University, Fullerton
M.A., University of Southern California

Robinson, Julia E. (2009) Nursing Education
B.S., California State University, Dominguez Hills
M.S., California State University, Dominguez Hills
DNP, University of San Diego

Rock, Mark E. (2016) Emergency Medical Education
B.A., University of Oregon
Rolens, Clare E. (2015) English  
B.A., University of California, Santa Barbara  
M.A., University of California, San Diego  
Ph.D., University of California, San Diego  

Rollins, Wade E. (1999) Graphic Communications  
B.A., California State University, San Marcos  
M.A., San Diego State University  

B.A., California State University, Northridge  
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Ph.D., California School of Professional Psychology, Los Angeles  

Rose, Candace (2014) Media Studies  
B.A., Prescott College  
M.H., Tiffin University  

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B.A., San Diego State University  
Ph.D., University of Montana  

Ross, Maryellen (2011) Nursing Education  
B.S., York College of Pennsylvania  
M.S., Walden University  

Roth, Renee C. (1998) Counseling  
B.A., New Mexico State University  
M.S., National University  

Rudy, Denise E. (2003) Dental Assisting  
A.A., MiraCosta College  

Russell, John K. (2016) Performing Arts  
B.M., Western Michigan University  
M.A., Columbia University  
D.M.A., University of Southern California  

Rypien, Krystal L. (2013) Life Sciences  
B.S., University of Alberta  
Ph.D., Cornell University  

Sadatt, Hossna (2018) Counseling  
B.S., University of California, San Diego  
M.S., San Diego State University  

A.A., Southwestern College  
B.A., San Diego State University  
M.A., San Diego State University  
Ph.D., San Diego State University  

A.A., Palomar College  
B.S., California State University San Marcos  
M.S., California State University San Marcos  

San Juan, Seth A. (2013) American Indian Studies  
B.A., University of California, San Diego  
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Sasse, Robert A. (2001) Child Development  
B.A., Newark State College  
M.A., Pacific Oaks College  

Schroer, Netta (2013) Behavioral Sciences  
B.A., Scripps College  
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Sheahan, Kathleen M. (2001) World Languages  
B.A., California State University, San Marcos  
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Sinnott, Christopher J. (2010) Performing Arts  
B.A., University of Notre Dame  
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Sivert, Shayla D. (1988) Dean, Instructional, Languages and Literature  
B.A., California State University, Fresno  
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Ph.D., Kingston Polytechnic, England  

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Ph.D., University of California, Riverside  

Smith, Devon Y. (2013) Behavioral Sciences  
B.A., Emory University  
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Ph.D., University of California, San Diego  

B.A., Linfield College  
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Smith, Melissa B. (1997) Speech Communication/Forensics/ASL  
A.A., Grossmont College  
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B.S., State University of New York at Plattsburgh  

B.A., California State University, Long Beach  
M.A., Monterey Institute of International Studies
Sprague, Ed (2016) Public Safety
A.A., Palomar College
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M.P.A., San Diego State University

B.S., California State University, Long Beach
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B.A., University of Cincinnati
M.S., State University of New York, New Paltz
M.S., New York University, New York

Stockert, Brian (2013) Dean, Counseling Services
A.A., Palomar College
B.A., San Diego State University
M.A., National University

B.A., Humboldt State University
M.A., National University

Struxness, Kevin R. (2001) Speech Communication/Forensics/ASL
B.A., Gallaudet College
M.S., American University

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Talone, Anita R. (2011) Design and Consumer Education
B.A., University of California, San Diego
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Thompson, Craig B. (2000) English
B.A., San Diego State University
B.A., University of California, Santa Barbara
M.A., University of California, San Diego
Ph.D., University of California, San Diego

Thomson, Carla B. (2000) Reading Services
B.A., University of Texas
M.S., California State University, Fullerton

Tian, Yan (2004) Mathematics
B.A., Beijing Teacher’s University
M.A., Indiana University

Titus, Sherry M. (1995) Student Affairs
B.S., Utah State University
M.A., National University
M.Ed., Utah State University

B.A., McPherson College
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M.S., San Diego State University

Towfiq, Fariheh (1990) Mathematics
B.S., University of California, Irvine
M.A., California State University, Fullerton

Trujillo, Alan P. (1990) Earth, Space and Aviation Sciences
B.S., University of California, Davis
M.S., Northern Arizona University

Trujillo, Stacey (2016) English
B.A., San Diego State University
M.A., University of California, San Diego
Ph.D., University of California, San Diego

Van Dyke, Leigh Ann (2013) Disability Resource Center
B.A., San Diego State University
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Van Houten, Juliane P. (2009) Nursing Education
B.S., University of Phoenix
M.S., San Diego State University

Velazquez, Kimberly M. (2007) Life Sciences
B.S., San Diego State University
M.S., San Diego State University

Ventimiglia, Thomas V. (1999) Counseling
A.A., San Diego Mesa College
B.A., University of San Diego
M.A., San Diego State University

Versaci, Rocco L. (1997) English
B.A., University of Illinois
M.A., Indiana University
Ph.D., Indiana University

Villa Fernandez de Castro, Elena (2016) World Languages
B.A., Universidad Autonoma de Madrid
M.A., University of Hawaii at Manoa
Ph.D., University of California, Santa Barbara

Voith, Anne L. (1990) Mathematics
B.S., California Polytechnic State University, San Luis Obispo
M.A., San Diego State University
Ed.D., University of San Diego

A.A., Palomar College
A.B., San Diego State University

Wasef, Solange B. (2011) Design and Consumer Education
B.S., California State University, Long Beach
M.S., California State University, Los Angeles

Weintraub, Tamara S. (1997) Library
B.A., University of California, San Diego
M.L.S., University of California, Los Angeles
Ph.D., University of California, San Diego

B.A., Queens College City University of New York
M.A., Queens College City University of New York
Ph.D., University of California, San Diego
<table>
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<tr>
<th>Administrative Emeriti</th>
<th>1947-1977</th>
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<tr>
<td>Altmann, Esther Nesbin*</td>
<td>Library and Dean</td>
</tr>
<tr>
<td>Backart, Dr. Kent E.</td>
<td>1962-1992</td>
</tr>
<tr>
<td>Bergman, Virgil L.*</td>
<td>1955-1979</td>
</tr>
<tr>
<td>Boehm, Dwight*</td>
<td>1958-1965</td>
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<td>Boggis, Dr. George R.</td>
<td>1985-2000</td>
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<td>Bowen, James T.*</td>
<td>1973-2000</td>
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<td>Brubeck, Howard R.*</td>
<td>1953-1978</td>
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<tr>
<td>Burton, Robert L.*</td>
<td>1957-1977</td>
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<tr>
<td>Cater, Judy J.</td>
<td>1975-2013</td>
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Director, Disability Resources
Halttunen, Lynda .................................................. 1984-2012
Dean, Counseling Services
Hoffman, Janet .................................................. 1976-2015
Manager Education Center/Counselor
Huber, Dr. Frederick R.* .................................. 1964-1977
District Superintendent and President
Hudson MacIsaac, Kelly ........................................ 1980-2012
Interim Director, Facilities
Jackson, Gene M.* ........................................... 1965-2002
Dean of Arts and Languages
Jay, Kenneth ..................................................... 1999-2012
Director, Business and Contract Services
Kilman, Dr. Theodore .......................................... 1962-1993
Journalism, Assistant Superintendent/Vice President of Instruction
Larmer, George P. ............................................... 1979-2011
Manager, Theatre Operations
Lee, Herman ...................................................... 1972-2012
Director of Enrollment Services
McClure, Scott .................................................. 1979-2012
Programming Manager
McDonald, Stephen B. ........................................ 1984-2012
Dean of Languages and Literature
Miyamoto, Norma ............................................... 1996-2015
Dean of Arts, Media, Business and Computing Systems
Morrow, Blaine .................................................. 2003-2015
Director CCC Confer/3C Media Solutions
Owens, Wilma ................................................... 1994-2015
Dean of Career, Technical and Extended Education
San Agustin, Mary .............................................. 1995-2015
Director, Financial Aid/Veterans and Scholarship Services
Scheidt, Dr. Omar H. ........................................... 1977-1990
Mathematics, Cooperative Education, Business Education and District Superintendent and President
Schettler, Dr. John D.* ...................................... 1956-1983
Assistant Superintendent/Vice President, Business Services
Schwerdtfeger, Dr. Patrick M. ................................. 1974-2007
Dean of Arts, Media, Business and Computing Systems
Dean of Counseling, Guidance, and Career Development
Tortarolo, John S. ................................................ 2006-2015
Assistant Superintendent/Vice President, Human Resource Services
Veach, Diane ..................................................... 1978-2015
Manager, Instruction Office
Vernoy, Mark W................................................. 1976-2013
Assistant Superintendent/Vice President, Student Services
Director of Athletics
Woodward, Dr. Robert M.* .................................. 1959-1984
Business Education and Dean of Extended Day

Faculty Emeriti

Ahrend, Justus W.* ............................................ 1964-1982
Photography
Alderson, Gary D. ............................................. 1976-2011
Life Sciences
Alper, Jay R. ...................................................... 1977-2010
Behavioral Sciences
Anderson, Yvonne D.* ...................................... 1989-2009
Economics, History, and Political Science
Archer, Dr. Roy R. ............................................. 1963-2003
Economics, History, and Political Science
Armstrong, Wayne P. ......................................... 1966-2003
Life Sciences
Arnsan, Daniel C. ............................................. 1980-2003
Library/Media Center
Drama
Aufmann, Richard N. ......................................... 1972-2000
Mathematics
Austin, George L.* ............................................ 1967-1990
Trade and Industry
Ayers, Mildred L. .............................................. 1964-1984
Physical Education
Baldwin, Russell W.* ........................................ 1965-1988
Art
Barker, Vernon C. .............................................. 1964-1990
Mathematics
Barkley, Christine D. .......................................... 1988-2011
English
Barlow, John* ................................................... 1953-1977
Art
Barnet, Harry N.* .............................................. 1975-1990
Chemistry
Barry, Robert ................................................... 1989-2015
Media Studies
Baum, Phillip .................................................... 1982-1998
Extended Opportunity Programs and Services
Physics and Engineering
Bertram, Larry L. ............................................... 1967-1994
Trade and Industry
Bishop, Bruce ................................................... 1977-2015
Speech Communications/Forensics/ASL
Bixler, Colleen .................................................. 1989-2015
English as a Second Language
Bleth, Dorothie D. ............................................. 1977-2000
Performing Arts
Bliss, Harry E. .................................................. 1967-1999
Art
Brannick, Monika ............................................................ 1995-2016
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Boehm, Louise K. ...................................................... 1981-2005
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Bowman, Robert E. ................................................... 1953-1981
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Chemistry
Boyd, David H. ....................................................... 1976-2008
Performing Arts
Brink, Celia Ann* ........................................................ 1972-1994
Social Sciences
Bruington, Neil E. ................................................... 1979-2003
Graphic Communications
Burke, Marilyn Crist* .................................................. 1965-1977
Foreign Languages
Burns, Dr. Kenneth D. ................................................ 1977-1999
Counseling
Campbell, LaVere C. ............................................ 1966-1984
Business Education
Carli, Angelo* ............................................................ 1964-1998
English
Casey, Donnabelle Anne* ........................................... 1967-1984
Nursing Education
Chambless, Dr. Beauford* ......................................... 1966-1983
Political Science
Chase, Dr. David A ................................................... 1974-2009
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Chittock, David H. K. ................................................. 1970-1986
Counseling
Ciurczak, Alexis K. ................................................... 1975-2006
Library
Clothier, Ruth E. ....................................................... 1971-1983
Child Development
Clyne, Kathleen G. ................................................... 1988-2008
Nursing Education
Cnossen, Jon ............................................................. 1977-2012
Health, Kinesiology and Recreational Management/Athletics
Coffman, Harold* .................................................... 1958-1964
Psychology
Coleman, Dr. Robert E.* ........................................... 1969-1992
English
Colwell, Ramona W. ................................................... 1971-1995
Mathematics
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Crowe, Judy A. ........................................................... 1980-2007
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Cuevas, Aura A.* ..................................................... 1972-1998
English
Curran, Michael A.* ................................................... 1969-1988
Physical Education
Dahlin, Raymond D.* .................................................. 1965-1999
Speech Communication, Forensics, and ASL
Daniels, James M. ...................................................... 1988-2003
Mathematics
Davis, Hayden ........................................................... 1981-2013
Behavioral Sciences
Davis, Rosemary R. .................................................... 1974-1996
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Dise, Linton John ........................................................ 1972-2008
Counseling
Disparti, Nicholas ...................................................... 1965-1982
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Dolan, Judith ............................................................. 1981-2013
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Dolan, Thomas C.* .................................................... 1972-1986
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Mathematics
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Economics, History, and Political Science
Dudik, Linda D. ........................................................... 1975-2009
Economics, History, and Political Science
Durrant, George * ..................................................... 1971-2015
Art
Design and Consumer Education
Eberhart, Judith E. ..................................................... 1973-2004
Counseling
Ebert, Robert R. ......................................................... 1967-2003
Life Sciences
Eldridge, Mark ............................................................ 1981-2015
Health, Kinesiology, and Recreation Management
Elliott, Fred L.* ......................................................... 1960-1981
Life Sciences
Ellison, G. Vernon* .................................................... 1977-1994
Physical Education
Erickson, John R. ....................................................... 1980-2008
Foreign Languages
Evans, Martha K. ...................................................... 1976-2010
World Languages
Farrelly, Joseph R. ..................................................... 1973-2009
Computer Science and Information Systems
Feddersohn, Richard C. ........................................ 1985-2012
Trade and Industry
Felton, James J.* ........................................... 1960-1990
Business Education
Fergus, Ralph E. ............................................... 1980-2012
Life Sciences
Flores, Adele G.* ............................................. 1978-2000
Extended Opportunity Programs and Services
Forsyth, David T. ............................................ 1981-2011
Business Education Department
Freeman, Gary M. ............................................ 1970-1999
Life Sciences
Fried, Bruce J. ............................................... 1991-2011
Emergency Medical Education
Fukunaga, Kristeen T. ....................................... 1975-2005
Chemistry
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Mathematics
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Life Sciences
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Family and Consumer Sciences
Galloway, Lois ................................................. 1986-2011
Extended Opportunity Programs and Services
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Counseling
Garzon, Luz E. ................................................ 1974-2013
Multicultural Studies/World Languages
Giardina-Rodgers, Mary Anne .................. 1986-2003
Child Development
Gibbs, O. Byron .............................................. 1967-1997
Counseling, Tutoring Services
Gibson, M. Diane ............................................ 1965-1999
English
Gilmour, Andrew D. ........................................ 1969-1995
Physical Education/Athletics
Gilson, Robert ................................................ 1973-2007
Performing Arts
Trade and Industry
Gomez, Carlos Z. ............................................ 1976-2010
World Languages
Goodson, Dr. Hulda G. .................................... 1977-2000
Child Development
Gordon, Dr. Joseph F.* ................................... 1962-1985
Social Sciences
Gordon, Sherry .............................................. 1991-2011
Business Administration
Graham, Loretta ............................................. 1979-2015
Design and Consumer Education
Grant, Patricia ............................................... 1969-1989
English as a Second Language
Griffin, Susan A. ............................................ 1979-1999
Nursing Education
Grisinger, Kenneth* ....................................... 1954-1966
Social Sciences
Chemistry
Gruber, Abraham ............................................ 1964-1994
Behavioral Sciences
Guerra, R. Anthony ......................................... 1974-2008
Multicultural Studies/Behavioral Sciences
Gullette, William T. ....................................... 1982-2006
Communications
Gunther, Dr. Margaret L. ................................. 1974-2002
Family and Consumer Sciences
English as a Second Language
Hahn, Patrick .................................................. 1998-2017
Media Studies
Hammond, James D.* .................................... 1974-1997
Counseling
Haney, Ann L. ................................................ 1966-2003
Behavioral Sciences
Hankin, J. Frank ............................................. 1973-1994
Extended Opportunity Programs and Services
Hankins, Clarice J.* ....................................... 1971-1990
Health Services
Hanlen, Charles J. .......................................... 1971-1999
Economics, History, and Political Science
Harlow, James M. .......................................... 1973-1997
English as a Second Language
Haugen, Nan E. ............................................. 1974-2004
Physical Education/Athletics
Hawkes, A. Dana ........................................... 1973-2000
Communications
Hawkins, William A. ..................................... 1977-2010
Performing Arts
Hawley, Warren S.* ....................................... 1972-1992
Social Sciences
Hegland, Sheridan N.* ................................. 1964-1970
Social Sciences
Heinz, Bettina .................................................. 1990-2015
Chemistry
Heltzel, Eleanor J.* ....................................... 1972-1982
Child Development
Henson, Dr. Lynne ........................................ 1990-2009
English as a Second Language

Heyden, Victor* .......................................... 1957-1984
Speech/Theatre Arts

Heyne, Adolph* .......................................... 1946-1969
Foreign Languages

Hinthorne, Stephen G.* ................................. 1968-1985
Mathematics

Hogan Egkan, Theresa .................................... 1995-2016
Counseling

Hohman, Barbara A. ...................................... 1991-2012
English

Houser, Jerry L. ........................................... 1982-2010
Earth, Space, and Aviation Sciences

Hubbard, Donald J. ....................................... 1971-1987
Physical Education/Athletics

Hudgens, Aileen .......................................... 1962-1990
Mathematics

Huffman, Karen .......................................... 1980-2010
Behavioral Sciences

Hulbert, James C. ......................................... 1964-1989
Art

Humphrey, Terry L. ...................................... 1976-2011
Behavioral Sciences

Humphrey, Thomas R. ................................... 1966-2000
Business Education/Computer Science & Information Systems

Hydock, Joseph H.* ..................................... 1960-1988
Earth Sciences

Ingham, Charles .......................................... 1991-2015
English

Iserman, Carl L.* ......................................... 1972-1986
Cooperative Education

Jackson, Russell F. ....................................... 1974-1990
Communications

Jeffery, Viola* ............................................ 1966-1982
Physical Education/Athletics

Jessop, Nancy M.* ....................................... 1975-1999
Life Sciences

Jessop, Raymond E.* .................................... 1960-1993
Physics/Engineering/Chemistry

John, George E.* ......................................... 1981-1995
Trade and Industry/Regional Occupational Program

Johnson, Jay .............................................. 1961-1998
Foreign Languages

Jones, Francis S. .......................................... 1972-1998
Art

Kang, Byung ................................................ 1990-2015
Librarian/Professor, Library

Keesee, James H.* ....................................... 1960-1976
Industrial Technology

Kerkhoff, Gloria .......................................... 1987-2015
Counseling

Key, Douglas ............................................. 1989-2015
Earth, Space, and Aviation Sciences

Kirby, Stephen D. ........................................ 1975-2003
Trade and Industry

Kirk, Charles E. .......................................... 1988-2009
Regional Occupational Program

Kline, Nellie I. ........................................... 1962-1987
Business Education

Knapp, Lester V.* ....................................... 1970-1995
Life Sciences

Kooymen, Melba M. ..................................... 1985-1998
Nursing Education

Kratt, John M.* .......................................... 1976-1993
Public Safety Programs

Kremer, Palmer N.* ..................................... 1961-1980
Social Sciences

Landmesser, Jean F. .................................... 1972-2002
Dental Assisting

Larson, Robert W. ....................................... 1965-1998
Counselor/Director, Transfer Center

Latulippe, Jerome A.* .................................. 1971-2012
Trade and Industry

Law, Dr. Patricia B. .................................... 1979-1995
Child Development

Leahy, John S.* .......................................... 1975-2004
Business Education

Lee, Loren A. ............................................. 1980-2009
Economics, History, and Political Science

Lehr, Martha J. ........................................... 1968-1985
Counseling

Lesser, Jo-Anne .......................................... 1976-2011
Counseling

Levy, Stanley A. ......................................... 1975-2010
Reading Services

Locklear, Linda R. ....................................... 1975-2012
American Indian Studies

Lugo, Anthony J. ......................................... 1974-2012
Art

Luna, James A. ........................................... 1986-2008
Counseling

Lusky, Robert F. ......................................... 1974-1997
Physical Education/Athletics

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Mahan, Dr. Harry C.* ................................... 1957-1976
Psychology

Mahoney, Joan M.* ..................................... 1970-1990
Nursing Education
Maieroff, Dr. E. Ann ........................................... 1971-2009
English

Marrin, Dockin A. ........................................... 1967-1990
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*Deceased
Section 11
Glossary and Index

Glossary of Terms

**Academic Renewal:** A policy which allows a student to petition to exclude prior substandard course work from their transcript which is not reflective of their current demonstrated ability. Obtain petition from the Counseling Center or Records Office.

**Academic Review Committee:** A process by which students can petition to deviate from the College’s policies and procedures. Obtain petition from the Counseling Center or Admissions Office.

**Articulation Agreements:** A list of courses offered at Palomar College which are acceptable at transfer universities as equivalent in content (or as acceptable substitutes) to those courses offered by the universities. These lists are available in the Counseling Center and online at http://www.assist.org.

**ASSIST:** The official Internet site (www.assist.org) that contains all articulation agreements between California Community Colleges, the California State University, and the University of California.

**Associate in Arts (AA) Degree:** Awarded upon completion of course work totaling not fewer than 60 degree applicable units in areas of: a) General Education, b) Major, c) Electives. Must apply by appropriate deadlines.

**Associate in Arts Degree for Transfer (AA-T) Degree:** Intended for students who plan to complete a Bachelor’s Degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. See a counselor for specific information regarding this major.

**Associate in Science (AS) Degree:** Awarded upon completion of course work totaling not fewer than 60 degree-applicable units in areas of: a) General Education, b) Major, c) Electives. Must apply by appropriate deadlines.

**Associate in Science Degree for Transfer (AS-T) Degree:** Intended for students who plan to complete a Bachelor’s Degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. See a counselor for specific information regarding this major.

**Auditing:** To take a course without being graded or receiving credit, available to students by petition only.

**Career Technical Education (CTE) Transitions:** Formerly known as Tech Prep, CTE Transitions is a technical and academic program that enables high school students to prepare for a career and college at the same time.

**Catalog:** A book published once a year that governs students’ progress toward degrees and certificates and contains course descriptions, programs, requirements, policies and procedures.

**Certificate of Achievement (CA):** Awarded upon completion of specified course work in a vocational/occupational program.

**Certificate of Proficiency (CP):** Designed to certify basic workplace competencies and job readiness. Awarded upon completion of specified course work.

**Class Schedule:** A booklet of class offerings, times, and locations published each term. The class schedule also contains enrollment information, add and drop deadlines, testing dates and times, and other general information. Class schedule may also be found on our website at http://www2.palomar.edu/pages/schedule/.

**College-Prep Classes (non-degree appropriate):** These courses, principally in the basic skills areas, prepare students to perform satisfactorily in associate and baccalaureate appropriate classes. Students can take no more than 30 units of these courses; they do not apply to the degree.

**Continuing Student:** One who has attended classes during the previous regular term beyond the drop deadline.

**Continuous Enrollment:** For enrollment purposes, it is defined as attendance at Palomar College beyond the drop period of each primary term, where letter grades or W’s appear on the transcript. For graduation purposes, it is defined as attendance in one semester or two quarters (excluding Summer Session) within a calendar year (January through December) in the CSU, UC, or California CC Systems following initial enrollment at Palomar.

**Directed Study:** Individual study for advanced students which may include class work, research, or projects that do not fit into the context of regularly scheduled classes. Department chairperson approval required for enrollment.

**Educational Plan:** A document generated by a student and a Palomar College Counselor that allows the student and institution together to identify the student’s educational objectives, and to formulate a method for reaching them.

**Full-Time:** A study load of 12 or more units per semester. The normal full-time load in Summer is 6 units. Nursing students are considered full-time with 9 units in nursing courses.

**General Education (GE) Requirements:** Also known as breadth or core requirements, these patterns of courses are designed to expose students to broad areas of knowledge.

**Grade Point Average (GPA):** Determined by dividing total grade points earned by total academic (A-FW) units attempted.

**Grade Points:** Points given for academic (evaluative) grades.

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<td>F</td>
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</table>

**Half-Time:** A study load of 6 – 8 1/2 units per semester.

**IGETC (Intersegmental General Education Transfer Curriculum):** A general education program that California community college transfer students can use to fulfill all lower-division G.E. requirements at most CSU or UC campuses (see a counselor for exceptions).

**Lower Division/Upper Division:** In colleges and universities, lower division means freshman and sophomore years and upper division means junior and senior years. Community colleges provide lower division course work for transfer to four-year colleges and universities.
**Major:** A major is a group of courses related to a defined area of study. All colleges and universities require students to declare and pursue a major.

**Noncredit Certificate of Completion (NC):** Designed to lead to improved employability or job opportunities. Awarded upon completion of specified course work.

**Noncredit Courses:** A variety of courses offered with no unit credit. The courses are taught by credentialed instructors and provide remedial, developmental, occupational, and other general educational opportunities to citizens of the community.

**Pass/No Pass (P/NP) Grading:** Pass/No Pass units are not counted in the GPA. A Pass is earned for coursework equal to a “C” grade or better. A No Pass is earned for coursework equal to a “D” or “F” grade. Pass/No Pass units are used in calculating Progress Probation and Dismissal.

**Probation:** A warning status that scholastic standards are not being met.

**Semester:** A 16-week period of class work.

**TAG (Transfer Admission Guarantee):** Palomar College has TAG programs with six UC campuses. All of these agreements guarantee admission into the major at those universities.

**Three-Quarter Time:** A study load of 9 – 11 1/2 units per semester.

**Transcript (of Record):** An official copy of the record of classes attempted and/or completed by a student. The transcript is maintained by the Palomar College Records Office and is considered confidential. It may be viewed or released only with permission of the student.

**Tuition (Enrollment Fees):** A charge for instruction.

**Tutor:** A person, recommended by faculty as knowledgeable in specified subjects, who is available through Tutoring Services free of charge to work with an enrolled individual in need of special assistance with course work.

**Unit of Credit:** A credit or semester unit represents one hour of class work per week for one semester. It is expected that most students will spend two hours outside class in preparation for each hour of lecture. Slightly less outside preparation time is expected in laboratory. Three hours of laboratory per week are approximately the equivalent of one unit.

**Units Attempted:** Credit units in which the student was enrolled beyond the 20% point of any course whether or not a passing grade was earned or the student withdrew from the course before its completion.

**Work Experience:** A program that combines classroom studies with on-the-job experiences.
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