PHIL 295 Directed Study in Philosophy (1, 2, 3)
1, 2, or 3 hours lecture
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.

Photography (PHOT)
See also Journalism

Contact the Media Studies Department for further information.
(760) 744-1150, ext. 2440
Office: P-31
For transfer information, consult a Palomar College Counselor.

Associate in Science Degrees -
AS Degree requirements are listed in Section 6 (green pages).
- Digital Imaging

Associate in Arts Degrees -
AA Degree requirements are listed in Section 6 (green pages).
- Photography

Certificates of Achievement -
Certificate of Achievement requirements are listed in Section 6 (green pages).
- Digital Imaging
- Photography

Certificates of Proficiency -
Certificate of Proficiency requirements are listed in Section 6 (green pages).
- Alternative Process Photography
- Fine Art Traditional Photography

PROGRAMS OF STUDY

Alternative Process Photography
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 Units
PHOT 100 Elementary Film and Darkroom Photography 3
or
PHOT 124 Introduction to Film and Darkroom for Digital Photographers 3
PHOT 213 Carbon Printing 3
PHOT 214 Photogravure 3
PHOT 215 Creative Photography 3
PHOT 216 Alternative Photographic Processes 3
TOTAL UNITS 15

Fine Art Traditional Photography
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 Units
PHOT 100 Elementary Film and Darkroom Photography 3
or
PHOT 124 Introduction to Film and Darkroom for Digital Photographers 3
PHOT 105 Intermediate Black and White Photography 3
PHOT 210 Advanced Black and White Photography 3
TOTAL UNITS 9

Eletives (Select 2 courses)
PHOT 170 The Photography and Photographers of California 3
PHOT 212 Landscape Photography 3
PHOT 213 Carbon Printing 3
PHOT 214 Photogravure 3
PHOT 215 Creative Photography 3
PHOT 216 Alternative Photographic Processes 3
ART 104 Design and Composition 3
TOTAL UNITS 15

Photography
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 Units
PHOT 120 Digital Photography 3
PHOT 100 Elementary Film and Darkroom Photography 3
or
PHOT 124 Introduction to Film and Darkroom for Digital Photographers 3
PHOT 125 History and Criticism of Photography 3
PHOT 130 Digital Darkroom I 3
PHOT/JOUR 140 Photojournalism 3
PHOT 160 Photography: Professional Practices 3
PHOT 209 Graphic Portfolio 3
PHOT 220 Commercial Photography 3
PHOT 225 Photographic Portraiture 3
Eletives (Select a minimum of 6 units)
PHOT 105 Intermediate Black and White Photography 3
PHOT 135 Digital Darkroom II 3
PHOT 136 Digital Darkroom: Black and White 3
PHOT 145 Advanced Photojournalism 3
PHOT 170 The Photography and Photographers of California 3
PHOT 171 Landscape and Culture 3
PHOT 197A Photography Topics: Field Studies 1 - 3
or
PHOT 197B Photography Topics: Technical Studies 1 - 3
or
PHOT 197C Photography Topics: General 1 - 3
PHOT 210 Advanced Black and White Photography 3
PHOT 212 Landscape Photography 3
PHOT 213 Carbon Printing 2
PHOT 214 Photogravure 3
PHOT 215 Creative Photography 3
PHOT 216 Alternative Photographic Processes 3
PHOT 296 Special Projects 1 - 3
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  (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 120
Transfer acceptability: CSU; UC (pending)
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)
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  (3)
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  (3)
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 136  Digital Darkroom: Black & White  (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 130
Transfer acceptability: CSU
Advanced concepts and techniques for “seeing” in black and white, and creating digital black and white photographs. Produce high-quality fine art prints.

PHOT 140  Photojournalism  (3)
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. Student must provide own camera.

PHOT 145  Advanced Photojournalism  (3)
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)
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, copyrighting 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  (3)
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 visitations with established photographers and galleries. Usually will require one trip of several days outside of the local area.

PHOT 171  Landscape and Culture  (3)
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.

See Catalog addendum at http://www.palomar.edu/catalog
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 (3)
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 (3)
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 213 Carbon Printing (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 100 or PHOT 124
Transfer acceptability: CSU
An exploration of the 19th century carbon photographic process. Students make large negatives from which they produce high-quality hand-made carbon transfer prints.

PHOT 214 Photogravure (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 100 or PHOT 124
Transfer acceptability: CSU
An introduction to the aesthetics and creation of photogravure intaglio-printed imagery. Historical and contemporary methods will be covered. Non-toxic methods will be stressed. Topics will include digital image preparation, polymer plates, safety, ink, paper, printing and press techniques, presentation, and critique.

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 Kalotype, 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.

PHOT 296 Special Projects (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHOT 105
Transfer acceptability: CSU
Requires demonstrated proficiency in photography and the creative ability and initiative to work independently on a particular sustained project which does not fit in the context of regularly scheduled classes. Could include portfolio preparation.

Physical Education
See Kinesiology

Physical Science (PHSC)
Contact the Physics and Engineering Department for further information.
(760) 744-1150, ext. 2505
Office: NS-355B

COURSE OFFERINGS

PHSC 100 Introduction to Physical Science (3)
3 hours lecture
Transfer acceptability: CSU; UC – No credit for students with prior lecture 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 lectures, films, and demonstrations. A general education course designed particularly for non-science majors. For teacher training see PHSC 101.