

**DMT 66 Truck Transmission and Drive Lines (3)**

2 hours lecture-3 hours laboratory

**Note:** Cross listed as R DMT 66

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 70 Medium Duty Diesel Engine Tune Up (3)**

2 hours lecture-4 hours laboratory

**Note:** Cross listed as R DMT 70; may be taken 2 times

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 81 Basic Hydraulics (3)**

2 hours lecture-3 hours laboratory

**Note:** May be taken 2 times

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 96 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, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

**Prerequisite:** DMT/R DMT 50**Note:** May be taken 4 times

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 97 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, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

**Note:** Cross listed as R DMT 97; may be taken 4 times

A special selection of topics specific in nature. The contents will vary depending on specific needs of the students and community.

**Note:** Credit/No Credit grading only; may be taken 4 times; 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.

Provides special assistance for students with disabilities to develop basic skills in written communication. Working with computers is part of the class format.

**DR 18 Phonics for Students with Disabilities (3)**

3 hours lecture

**Note:** May be taken 3 times

This course is designed to meet the needs of students with disabilities. It teaches the use of phonics as a spelling and reading strategy.

**DR 20 Pre-Algebra Support (3)**

3 hours lecture

**Note:** Credit/No Credit grading only; may be taken 4 times

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:** Credit/No Credit grading only; may be taken 4 times

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 26 Composition Skills and Strategies for the Intermediate Writer (3)**

3 hours lecture

**Recommended preparation:** ENG 10 or eligibility for ENG 50**Note:** May be taken 2 times

This class is designed to help students with disabilities improve their intermediate composition skills through methods and strategies specific to their disabilities.

**DR 40 Adapted Computer Skills (3)**

3 hours lecture

**Note:** May be taken 3 times

This course is designed to meet the needs of the students with disabilities. Students learn to use computers with access technology such as voice recognition, screen readers, screen enlargement and other hardware adaptations.

**DR 41 Advanced Adapted Computers for Students with Disabilities (3)**

3 hours lecture

**Recommended preparation:** DR 40**Note:** May be taken 3 times

Provides training in more advanced software for students with disabilities by using their prescribed access technology. Course work meets computer literacy competence for CSUSM.

**DR 42 Voice Recognition for Students with Disabilities (3)**

3 hours lecture

**Note:** May be taken 3 times

Provides voice recognition computer training for students with disabilities.

**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**Note:** May be taken 2 times

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

## 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 5 Personal Adjustment and Growth (2)**

1½ hours lecture-1½ hours laboratory

**Note:** May be taken 3 times

An individualized class which explores existing concepts, theories, and practices pertaining to self appraisal defense mechanisms and interpersonal relations, and how that relates to school management and to the student's particular disability. This course is designed to meet the needs of students with disabilities.

**DR 10 Educational Assessment/Guidance (.5)**

½ hour lecture

**Note:** Open entry/Open exit; Credit/No Credit grading only; may be taken 2 times

This individualized course is designed to assess, by means of diagnostic testing and the California Community College learning disability eligibility process, the student's need for academic accommodations in the community college setting. The student will be counseled in planning appropriate educational goals and in selecting and preparing for college classes.

**DR 15 English Essentials for Students with Disabilities (3)**

3 hours lecture

**Note:** May be taken 2 times

Provides training using specialized software and hardware adaptations in combination with Microsoft Office, Internet Explorer, and other academic applications.

**DR 45L Adapted Computer Laboratory (1)**  
3 hours laboratory

**Note:** Credit/No Credit grading only; may be taken 4 times

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 or lecture/laboratory may be scheduled by the department.

**Note:** May be taken 3 times

Topics in disability resource. See Class Schedule for specific topic offered. Course title will designate subject covered.

## Drafting Technology (DT)

Contact the Design and Consumer Education Department for further information.

(760) 744-1150, ext. 2349

Office: ST-49

### Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

- Architectural Drafting Technology
- Computer Assisted Drafting
- Drafting Technology - Multimedia
- Drafting Technology - Technical
- Electro-Mechanical Drafting and Design
- Interactive Media Design - Emphasis in 3D Modeling and Animation
- Interactive Media Design - Emphasis in Multimedia Design

### Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Architectural Drafting Technology
- Computer Assisted Drafting
- Drafting Technology - Multimedia
- Drafting Technology - Technical
- Electro-Mechanical Drafting and Design
- Interactive Media Design - Emphasis in 3D Modeling and Animation
- Interactive Media Design - Emphasis in Multimedia Design

## PROGRAMS OF STUDY

### Architectural Drafting Technology

Prepares students for employment as a design/production drafter in the field of architecture.

Students concerned with transfer into an architectural program at a university should review specific course requirements with their architectural instructor and the Counseling Department.

#### A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
DT 105 Basic Architectural Drafting	3
DT 120 or Architectural History	
DT 121 Multicultural Architectural History	3
DT/R DT 125 AutoCAD Introduction to Computer Aided Drafting	3
DT 135 Architectural Materials/Methods Construction	3
DT 144 Architectural Drawing and Color	3
DT 145 Architectural Delineation/Pictorial Drawing	4
DT 155 Architectural Theory	2
DT 160 Environmental Architecture and Design	3
DT 185 Architectural 3D Studio MAX	3
DT/R DT 200 Advanced Computer Aided Architectural Drafting	4

#### Electives (Select 9 units)

CE 100 Cooperative Education	1,2,3,4
CE 105 Job Hunting Techniques	1,2,3
CSIT 120/ R CSIS 120 Computer Applications	3
DT 120 or Architectural History	
DT 121 Multicultural Architectural History	3
DT/R DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT/R DT 127 AutoCAD Customization	2
DT 129 Basic Architectural Drafting with AutoCAD	3
DT 215 Architectural Design Fundamentals I	5
DT 216 Architectural Design Fundamentals II	5
MATH 115 Trigonometry	3

**TOTAL UNITS**

**40**

### Computer Assisted Drafting

Prepares students in the skills necessary for employment as a computer assisted drafting operator.

#### A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

##### Program Requirements

Program Requirements	Units
CSIT 105 Computer Concepts and Applications	3
DT/R DT 125 AutoCAD Introduction to Computer Aided Drafting	3
DT/R DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT/R DT 127 AutoCAD Customization	2
DT/R DT 128 SolidWorks Intro to 3D Design and Presentation	3
IT 100 Technical Mathematics	3

##### Electives (Select 12 units)

DT 110 Technical Drafting I with AutoCAD	4
DT 111 Technical Drafting II with AutoCAD	4
DT 140 Electronic Drafting and Design	3
DT 145 Architectural Delineation/Pictorial Drawing	4
DT 196B Special Problems/CAD	1,2,3
DT/R DT 200 Advanced Computer Aided Architectural Drafting	4
DT 210 Printed Circuit Board Design	3
BUS 205 Business Writing	3
CE 105 Job Hunting Techniques	1,2,3
MATH 110 College Algebra	4
MATH 115 Trigonometry	3
CE 100 Cooperative Education	1,2,3,4

**TOTAL UNITS**

**29**

### Drafting Technology - Multimedia

Prepares students in the skills necessary for employment in the multimedia presentation field.

#### A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

##### Program Requirements

Program Requirements	Units
DT/R DT 125 AutoCAD Introduction to Computer Aided Drafting	3
DT/R DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT/R DT 128 SolidWorks Intro to 3D Design and Presentation	3
DT 180 3D Studio Max - Intro to 3D Modeling/Animation	3
DT 182 3D Studio Max - Advanced 3D Modeling/Animation	3
DT 184 Real Time 3D Technical/Game Animation	2
IT 100 Technical Mathematics	3

##### Electives (Select 12 units)

ART 241 Computer Graphics	3
ARTD 150 Digital Concepts/Techniques in Art	3
ARTD 220 Motion Design	3
ARTI 246 Digital 3D Design and Modeling	3
ARTI 247 Digital 3D Design and Animation	3
CE 105 Job Hunting Techniques	1,2,3
COMM 100 Mass Media in America	3