

**DMT 62 Diesel Engine Rebuilding II (4)**  
3 hours lecture - 3 hours laboratory**Recommended preparation:** DMT 61

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.

**DMT 65 Air Brake Systems (4)**  
3 hours lecture - 3 hours laboratory

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 66 Truck Transmission and Drive Lines (4)**  
3 hours lecture - 3 hours laboratory

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 (4)**  
3 hours lecture - 3 hours laboratory**Note:** 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 (4)**  
3 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 or laboratory may be scheduled by the department. Refer to Class Schedule.

**Prerequisite:** A minimum grade of 'C' in 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 or laboratory may be scheduled by the department. Refer to Class Schedule.

**Note:** 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.

## 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 15 English Essentials for Students with Disabilities (3)**  
3 hours lecture

**Note:** Pass/No Pass 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.

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 18 Phonics for Students with Disabilities (3)**  
3 hours lecture**Note:** May be taken 3 times

Non-degree Applicable

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

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; may be taken 4 times

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 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

Non-degree Applicable

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

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**Note:** May be taken 3 times

Non-degree Applicable

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 (2)**  
2 hours lecture**Note:** May be taken 2 times

Non-degree Applicable

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

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**Note:** May be taken 2 times

Non-degree Applicable

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

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.

**Note:** May be taken 3 times

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 Design and Consumer Education Department for further information.

(760) 744-1150, ext. 2349

Office: P-8A

**Associate in Science Degrees -**

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

- Interactive Media Design - Emphasis in 3D Modeling and Animation

**Associate in Arts Degrees -**

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

- Computer Assisted Drafting
- Drafting Technology - Multimedia
- Drafting Technology - Technical
- Electro-Mechanical Drafting and Design
- Interactive Media Design - Emphasis in Multimedia Design

**Certificates of Achievement -**

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

- 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****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		Units
DT/ARCH 125	AutoCAD Introduction to Computer Aided Drafting	3
DT 126	AutoCAD Intermediate Computer Aided Drafting	3
DT 127	AutoCAD Customization	2
DT 128	SolidWorks Introduction to 3D Design and Presentation	3
DT 131	SolidWorks Advanced 3D Design and Presentation	3

IT/WELD 108	Technical Mathematics	3
MATH 50	Beginning Algebra	4
MATH 50A	Beginning Algebra Part I	2
MATH 50B	Beginning Algebra Part II	2
MATH 56	Beginning/Intermediate Algebra	6
MATH 60	Intermediate Algebra	4

**Electives (Select 12 units)**

ARCH 200	Advanced Computer Aided Architectural Drafting	4
CE 100	Cooperative Education	I - 4
DT 110	Technical Drafting I with AutoCAD	4
DT 111	Technical Drafting II with AutoCAD	4
DT/WELD 117	Geometric Dimensioning and Tolerancing	2.5
DT 196	Special Problems in Computer Aided Drafting	I - 3
DT/ARCH 202	Introduction to Revit Architecture	3
DT 210	Printed Circuit Board Design	3
DT 211	Advanced Printed Circuit Board Design	3
MATH 110	College Algebra	4
MATH 115	Trigonometry	3

**TOTAL UNITS 29 - 32****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		Units
DT/ARCH 125	AutoCAD Introduction to Computer Aided Drafting	3
DT 126	AutoCAD Intermediate Computer Aided Drafting	3
DT 128	SolidWorks Introduction to 3D Design and Presentation	3
DT 180	3D Studio Max - Introduction to 3D Modeling and Animation	3
DT 182	3D Studio Max-Advanced 3D Modeling and Animation	3
DT 184	Real Time 3D Technical/Game Animation	2
IT/WELD 108	Technical Mathematics	3
MATH 50A	Beginning Algebra Part I	2
MATH 50B	Beginning Algebra Part II	2
MATH 50	Beginning Algebra	4

**Electives (Select 12 units)**

ARTD 150	Digital Concepts and 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
COMM 100	Mass Media in America	3
CSIT 120	Computer Applications	3
DT 131	SolidWorks Advanced 3D Design and Presentation	3
DT 196	Special Problems in Computer Aided Drafting	3
DT/ARCH 202	Introduction to Revit Architecture	3
GCI 140	Digital Imaging/Photoshop I	4
GCMW 101	Multimedia I	4
GCMW 201	Multimedia II	4
MATH 110	College Algebra	4
MATH 115	Trigonometry	3
MUS 180	Computer Music I	3
CE 100	Cooperative Education	I - 4

**TOTAL UNITS 33 - 36**