

DA 70 Dental Radiography I (2.5)

2 hours lecture-1½ hours laboratory

Prerequisite: Admission to the Dental Assisting Program**Note:** Graded only

Theory and technique of oral radiography, radiation hygiene, anatomical landmarks, and methods and materials for processing radiographs. The laboratory portion will provide the student with knowledge concerning film placement, cone angulation, exposing and developing radiographs, and mounting and evaluating processed films.

DA 71 Dental Radiography II (.5)

1½ hours laboratory

Prerequisite: DA 50; DA 70; and proof of Hepatitis B Immunization; and EME 55 or current BLS for Healthcare Providers Certificate**Note:** Graded only

Advanced experience regarding film placement, cone angulation, exposing and developing radiographs, mounting and evaluating films to further enhance the student's patient management skills.

DA 75 Dental Operative Procedures (5)

3 hours lecture-6 hours laboratory

Prerequisite: Admission to the Dental Assisting Program**Note:** Graded only

Applications of and introduction to preclinical dental assisting in operative and specialty dental procedures, care of equipment, instrumentation, sterilization techniques, disease transmission, charting, utilization of dental materials, dental office emergencies, and functions delegated to the California Registered Dental Assistant.

DA 80 Coronal Polishing (1)

2 hours lecture/laboratory

Prerequisite: Admission to the Dental Assisting Program**Note:** Graded only

Identification of dental plaque, other soft deposits, tooth stains, discolorations, periodontics, and deposit retention factors. Polishing procedures: Polishing agents, prophylaxis angle, attachments, and technique.

DA 81 Clinical Coronal Polishing (.5)

1½ hours laboratory

Prerequisite: DA 50; DA 80; proof of Hepatitis B Immunization; and EME 55 or current BLS for Healthcare Providers Certificate**Note:** Graded only; may be taken 2 times

Application of concepts and skills from pre-clinical DA 80. Emphasis is on the coronal polishing procedure as applied to clinical patients.

DA 85 Advanced Dental Procedures (4)

2 hours lecture-6 hours laboratory

Prerequisite: DA 50; DA 60; and DA 75; proof of Hepatitis B Immunization; and EME 55 or 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 for preliminary impressions, 4) fabrication of provisional restorations, and 5) advanced prosthodontic and orthodontic instruction.

DA 90 Clinical Rotation (6.5)

19½ hours laboratory/clinical

Prerequisite: DA 50; DA 75; proof of Hepatitis B Immunization; and EME 55 or current BLS for Healthcare Providers Certificate**Note:** Credit/No Credit only

An intensive program of practical dental experiences, working with patients and staff at the Camp Pendleton Naval Dental Clinic 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, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

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

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

Diesel Mechanics Technology (DMT)

Contact the Trade and Industry Department for further information, (760) 744-1150, ext. 2545

Associate in Arts degree requirements, Certificate of Achievement requirements, and Certificate of Proficiency requirements are listed in Section 6 (green pages) of the catalog.

PROGRAM OF STUDY**Diesel Technology****A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

Program Requirements		Units
AT 105	Automotive Electricity	2
AT 160	Associated Studies in Automotives	3
AT 197	Topics in Automotive	3
DMT/R DMT 50	Introduction to Diesel Mechanics	3
DMT/R DMT 55	Heavy-Duty Diesel Tune-Up/Analysis	3
DMT/R DMT 61	Diesel Engine Rebuilding I	3
DMT/R DMT 62	Diesel Engine Rebuilding II	3
DMT/R DMT 65	Air Brake Systems	3
DMT/R DMT 66	Truck Transmission and Drive Lines	3
IT 100	Technical Mathematics	3
Electives (Select 6 units)		
AT 125	Automotive Machining	3
DMT 54	Heavy-Duty Electricity	3
DMT 56	Alternative Fuels	3
DMT/R DMT 70	Med-Duty Diesel Engine Tune-up	3
DMT 81	Basic Hydraulics	3
DMT 96	Special Problems in Diesel Technology	.5-3
DMT/R DMT 97	Diesel Mechanics Tech Workshop	.5-3
WELD 100	Welding I	3
CE 100	Cooperative Education	1,2,3,4
TOTAL UNITS		35

The Diesel Technology A.A. Degree Major or Certificate of Achievement is also listed in ROP Diesel Mechanics Technology.

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

DMT 50 Introduction to Diesel Mechanics (3)

6 hours lecture/laboratory

Note: Cross listed as R DMT 50

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 54 Heavy-Duty Electricity (3)

6 hours lecture/laboratory

Note: May be taken 2 times

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 55 Heavy-Duty Diesel Tune Up and Engine Analysis (3)

2 hours lecture-4 hours laboratory

Prerequisite: DMT/R DMT 50

Note: Cross listed as R DMT 55; may be taken 2 times

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 56 Alternative Fuels (3)

6 hours lecture/laboratory

Recommended preparation: DMT/R DMT 50

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 61 Diesel Engine Rebuilding I (3)

6 hours lecture/laboratory

Recommended preparation: DMT/R DMT 50

Note: Cross listed as R DMT 61; may be taken 2 times

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 62 Diesel Engine Rebuilding II (3)

6 hours lecture/laboratory

Recommended preparation: DMT/R DMT 61

Note: Cross listed as R DMT 62

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 (3)

2 hours lecture-3 hours laboratory

Note: Cross listed as R DMT 65

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 (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 re-

search 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.

Disability Resource (DR)

Contact the Disability Resource Center for further information, (760) 744-1150, ext. 2375

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: 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.