

Course: AH 186

Also Listed As:

Term Effective: 200970, INACTIVE COURSE

Short Title: ADV DENTAL ASST

Full Title: Advanced Dental Assisting

<u>Contact Hours/Week</u>	<u>Units</u>	<u>Number of Weeks</u>	<u>Total Contact Hours</u>
Lecture: 4	6	17.34	Lecture: 69.36
Lab: 6			Lab: 104.04
Other: 0			Other: 0
Total: 10			Total: 173.4

Credit Status: D - Credit - Degree Applicable

Grading Modes: L - Standard Letter Grade

Repeatability: N

Schedule Types: 02 Lecture and/or discussion
 03 Lecture/Laboratory
 04 Laboratory/Studio/Activity

Course Description:

Advanced concepts of dental assisting including dental radiography, operative dentistry, specialty procedures, and office administration. Completion of this course qualifies the student for certificate of completion in Advanced Dental Assisting. Units in this course do not count toward the associate degree and/ or certain certificate requirements.

ADVISORY: Allied Health 185 or equivalent. Equivalency determined by written and performance exams.

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 198930

UC TRANSFER:

Not Transferable

PREREQUISITES:

COREQUISITES:

STUDENT LEARNING OUTCOMES:

Preparation for Advanced Dental Assisting.

Demonstrated clinical competency.

COURSE OBJECTIVES:

WEEK 1

1) Describe the physical properties of ionizing radiation and the units to measure it. Also, determine the annual maximum permissible dosage (MPD) for the operator and for the patient who will be exposed to x-radiation. 2) List, in descending order, the types of human tissues most sensitive to x-radiation. Also, describe and demonstrate protection of the patient, operator, and staff according to acceptable standards for radiation hygiene. 3) Describe the structure and function of the components of the x-ray tube and the dental x-ray machine and the functions of milliamperage, kilovoltage, and exposure time as they relate to the production of diagnostic quality radiographs. 4) Describe how film type and speed rating relate to exposure time and to the production of diagnostically acceptable radiographs. 5) Identify anatomic landmarks of the human skull and dentition that apply to satisfactory production of quality radiographs. 6) Identify the various sizes of dental radiographic film and state the uses of each. Also, describe and demonstrate the application of periapical, bite-wing, occlusal, extraoral and panoramic type radiographs. 7) List and describe criteria for evaluation of diagnostic radiographs of the complete dentition: adult, primary, mixed, and edentulous. 8) Demonstrate the placement, exposure, & processing of film in the application of paralleling and the bisecting angle technique. 9) Demonstrate the modification necessary for producing radiographs of edentulous, partially edentulous, & mixed dentition. Also, describe the cause and the correction of errors & artifacts on radiographs. 10) Demonstrate processing and mounting of exposed dental x-ray film using manual and automatic procedures.

WEEK 2

1) List, and describe, the three essential elements of a complete diagnosis and treatment plan. 2) Describe a clinical examination of the hard and soft tissues of the oral cavity, face and neck. 3) Identify Black's classification of cavities and the "simple, compound or complex" classification of cavities. 4) Chart a dental examination using the symbols commonly employed to record dental conditions and treatments. 5) Describe the essentials of a case presentation including the role of the administrative assistant in making financial arrangements. 6) Demonstrate obtaining maxillary

& mandibular alginate impressions for study casts. 7) Demonstrate obtaining a wax bite registration. 8) Demonstrate pouring, separating and trimming maxillary and mandibular casts for a case presentation.

WEEK 3

1) Describe the limitations & uses of coronal polishing techniques (as opposed to a prophylaxis). 2) Identify & describe the functions of the instruments and materials used in coronal polishing. 3) Describe the care of dental appliances (prostheses). 4) Demonstrate coronal polishing on a manikin or patient. 5) Demonstrate the care and lubrication of the right-angle handpiece.

WEEK 4

1) State the indications for use of a rubber dam. 2) Describe the specialized types of rubber dam & rubber dam clamps. 3) Describe the specialized types of rubber dam placement around a fixed bridge. 4) Demonstrate punching rubber dam for placement on single or multiple upper or lower anterior or posterior teeth. 5) Demonstrate proper placement, inversion, and removal of rubber dam on a manikin or patient.

WEEK 5

1) Describe the principles of cavity preparation using the appropriate terminology. 2) Describe the use of composite and direct-filling resins for tooth restorations. 3) Identify the components of a Tofflemire matrix retainer and band. Demonstrate preparation, placement, and removal of the retainer & band. 4) Demonstrate the process of dispensing and triturating amalgam for restorations. 5) Describe placing, condensing, carving & polishing amalgam restorations.

WEEK 6

1) Describe a complete dental examination and oral disease control program for a child patient. 2) Describe the use of premedication and pain control in pedodontics. 3) Describe the following: use of preventive resin restorations; the classification and treatment of fractured teeth; placement of a stainless steel crown and the specialized oral surgery needs of children. 4) Describe the construction and use of custom mouth guards, bite planes, and space maintainers. 5) Demonstrate the application of topical fluoride using a commercial fluoride gel and trays. 6) Demonstrate the application of pit & fissure sealants. 7) Demonstrate fabrication, placement, and stabilization of a "T" matrix.

WEEK 7

1) Describe the categories of, and need for, orthodontic treatment. Also identify Angle's classification of occlusion and malocclusion. 2) Describe the facial habits that may adversely affect orthodontic treatment and explain the importance of patient cooperation in successful treatment. 3) Describe the principles of tooth movement and identify the type of appliances used to achieve this movement. 4) Identify the special instruments used in orthodontic treatment. 5) Describe the role of cephalometrics in orthodontics and identify the landmarks of the skull that are important in cephalometrics. 6) Describe the selection, cementation and removal of orthodontic bands. Also, describe the procedure used in the direct bonding of brackets. 7) Demonstrate the procedure for placement and removal of orthodontic study casts. 8) Demonstrate pouring, separating, trimming, and finishing orthodontic study casts. 9) Describe, or demonstrate, the construction of a Hawley

retainer. 10) Describe, or demonstrate, the use of the ultrasonic scaler in the removal of excess cement. 11) Describe, or demonstrate, placement and removal of arch wires and ligature ties. 12) Describe, or demonstrate, giving the patient instruction on home care and wearing headgear or a positioner.

WEEK 8

1) Describe the indications, and contraindications, for endodontic treatment. 2) Identify endodontic instruments and describe their use and care. 3) Describe the specialized diagnostic tests used in an endodontic examination. 4) Describe the steps in endodontic treatment and differentiate between chemical and mechanical debridement of the root canal. 5) Describe the technique for obtaining an endodontic culture. 6) Demonstrate measuring and placing stops on endodontic instruments. 7) Demonstrate pulp vitality testing. 8) Demonstrate irrigating the root canal.

WEEK 9

1) List the indications and contraindications for fixed prosthodontics and describe the role of the dental laboratory technician in fixed prosthodontics. 2) Describe the types of crowns and crown preparations including: full, veneer, dowel, seven-eighths, and three-quarter crowns. 3) Relate the steps in the construction of a dowel post and crown and in a core build-up. 4) Describe the components of a bridge and the functions of each. 5) Describe three methods used for gingival retraction. Demonstrate gingival retraction using the chemical method. 6) Describe the methods of obtaining a bite registration. 7) Describe the laboratory steps involved in the construction of a fixed bridge and a veneer crown. 8) Demonstrate the construction of a custom acrylic tray. 9) Demonstrate preparing impression materials including: polysulfide (rubber base), silicone, and hydrocolloid. 10) Demonstrate the preparation of temporary coverage.

WEEK 10

1) Differentiate between fixed and removable prosthodontics and describe the role of the assistant and the laboratory technician in removable prosthodontics. 2) Describe the indications and contraindications for removable prosthodontics including intraoral and extraoral factors affecting the patient. 3) List the components of complete and partial dentures. 4) Describe the appointments and steps necessary for completion of a complete or partial denture. 5) Describe the construction of an overdenture and the different types of implants. 6) Demonstrate construction of a custom tray for a secondary impression.

WEEK 11

1) State the indications and contraindications for a periodontal treatment and describe the role of the hygienist and assistant in periodontics. 2) Identify the instruments used in periodontics and describe the care of these instruments. 3) Describe the steps and procedures involved in a periodontal examination and demonstrate recording the patient's periodontal conditions as dictated by the periodontist. 4) Describe the specialized periodontal procedures including prophylaxis, scaling, and curettage, root planing, gingivectomy, gingivoplasty, and osteoplasty. 5) Demonstrate mixing eugenol-type and non-eugenol-type periodontal surgical dressings.

WEEK 12

1) Describe the indications and contraindications for oral surgery.

- 2) Name & state the uses of the specialized oral surgery instruments.
- 3) Describe the chain of asepsis & the assistant's role in oral surgery.
- 4) Describe oral surgery procedures including forceps extractions, alveolectomy, and biopsy.
- 5) Demonstrate preparing sutures in the suture needle & removing sutures from the surgical site.
- 6) Discuss the assistant's role in hospital dentistry.
- 7) Demonstrate preparation of a sterile field for oral surgery instruments.

TOPICS AND SCOPE:

Inactive Date: 05/11/2009

Inactive Term: Fall 2009

- 1 4 Lec Dental Radiography
- 2 4 Lec Complete Diagnosis and Treatment Planning
- 3 4 Lec Coronal Polishing Technique
- 4 4 Lec Rubber Dam Application
- 5 4 Lec Operative Dentistry
- 6 4 Lec Pedodontics
- 7 4 Lec Orthodontics
- 8 4 Lec Endodontics
- 9 4 Lec Fixed Prosthodontics
- 10 4 Lec Removable Prosthodontics
- 11 4 Lec Periodontics
- 12 4 Lec Oral Surgery
- 13 4 Lec The Administrative Assistant
- 14 4 Lec Accounts Receivable
- 15 4 Lec Dental Insurance
- 16 4 Lec Expenses and Disbursements
- 17 4 Lec Employment
- 18 FINAL EXAM

NOTE: The students will also have 6 clinical/ laboratory hours per week in addition to the lecture/theory hours listed above.

ASSIGNMENTS:

Each week the student will read the appropriate chapters in the text and complete assigned exercises.

METHODS OF INSTRUCTION:

Lecture, discussion, demonstration/return demonstration, supervised clinical practice, quizzes/exams, clinical performance exam.

REPRESENTATIVE TEXTBOOKS:

Torres & Ehrlich, *Modern Dental Assisting's*, W.B. Saunders Co., current edition

Reading Level: determined to be 13.4* grade by K. Bedell (*grade level artificially elevated due to technical terms)

Other Materials Required to be Purchased by the Student:

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: I

Noncredit Category: Y

Cooperative Education:

Program Status: 1 Program Applicable

Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: AH
CSU Crosswalk Course Number: 186
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: B
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000456052
Sports/Physical Education Course: N
Taxonomy of Program: 124010