

Course: AH 185

Also Listed As:

Term Effective: 200970, INACTIVE COURSE

Short Title: BASIC DENTAL ASST

Full Title: Basic 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:

A course to provide basic introduction to dental assisting. Emphasizes principles, understanding and skills necessary to perform basic dental assisting procedures safely and effectively. Completion of this course qualifies the student for certificate of completion in Basic Dental Assisting.

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 entry level position as dental assistant.

Demonstrated clinical competency.

COURSE OBJECTIVES:

WEEK 1

1) Identify early developments and major contributors to dentistry from early times through the Middle Ages and the Renaissance. 2) Identify the pioneers in dentistry in the United States. 3) Trace the development of dentistry in the United States and identify the contributors to this growth. 4) Describe the effect of the Amalgam War on the history of organized dentistry in the United States. 5) List the major other developments in dentistry and identify their innovators.

WEEK 2

1) List, and describe briefly, the eight dental specialties. 2) Discuss the responsibilities, education, licensure certification, registration, and professional organization as applicable for the dentist, dental assistant, hygienist, and laboratory technician. 3) Identify 10 potential expanded functions that may be assigned dental auxiliaries. 4) Define or describe the following: ethics, jurisprudence; State Dental Practice Act; unlicensed practice of dentistry; respondeat superior; res gestae, malpractice; and reasonable skill, care and judgment. 5) Identify the following: ADA, ADAA, CDA, CDT, DDS, DMD, EFDA, RDA, and RDH.

WEEK 3

1) Identify the body systems in terms of structure (components) & function. 2) Identify the bones and major anatomic landmarks of the skull. 3) Describe the histology of bone in terms of: cartilage, compact bone, spongy bone, and periosteum. 4) Describe the glide and hinge action of the temporomandibular joint. 5) Identify the major muscles of mastication, facial expression, the floor of the mouth, extrinsic muscles of the tongue, and major posterior muscles of the mouth. 6) Identify the major veins and arteries of the face and mouth. 7) Identify the major sources of innervation of the teeth and oral cavity. 8) Identify the major anatomic landmarks of the oral cavity. 9) Name and locate the salivary glands and their ducts. 10) List the major lymph nodes of the face and neck.

WEEK 4

1) Name the three primary embryonic layers & describe the tissues each forms following differentiation. 2) Describe the embryonic development of the palate including formation of the primary and secondary palate. 3) State the effects of genetic and prenatal

environment factors on dental development. 4) Describe the post-natal growth of the maxilla and mandible in terms of the deposition and absorption of bone. 5) List the three developmental periods in the life cycle of a tooth & describe the stages within each period. Also identify the aberrations in tooth development that may occur in each of these developmental stages. 6) Describe the following tissues in terms of structure, function, and possible disorders: enamel, dentin, pulp, cementum and periodontal ligament. 7) List the structures which form the attachment apparatus and the gingival unit of the periodontium. 8) Describe the characteristics of normal gingival tissue.

WEEK 5

1) Identify the four types of teeth, describe the design and specialized functions of each type, and classify them as anterior posterior teeth. 2) Describe the Universal Number System and the Federation Dentaire Internationale Two-Digit Tooth Recording System. 3) Define the terms related to tooth morphology including: the curve of Spee, the names of the surfaces of the teeth, contours and contacts, overbite and overjet, embrasure and occlusal form and the physiology of occlusion. 4) Identify the number and types of teeth in the primary dentition; state the specialized functions of the primary dentition and describe the special characters of these teeth such as enamel thickness and size of the pulp chamber. 5) Compare the primary and permanent dentition in terms of: numbers and types of teeth; size and shape of similar types of teeth. 6) Identify each of the permanent and primary teeth in terms of number of cusps and roots, and unusual anatomic landmarks. The correct terminology should be used in describing these landmarks. 7) Given an extracted tooth, or a typodont tooth, identify the following: the type of tooth; whether it is an anterior or posterior tooth; and if it has an incisal edge or occlusal surface.

WEEK 6

1) Identify the following terms: aerobes, anaerobes, asepsis, epidemiology, microorganisms, obligatory parasite, pathogen and sepsis. 2) Describe the two main shapes of bacteria and differentiate between aerobes and anaerobes. 3) Describe how some bacteria protect themselves against adverse conditions by forming capsules and spores. Also, state the problems which these cause in efforts to control microbial activity. 4) State six potential means of disease transmission in the dental office and list the three microorganisms which are of particular concern here. 5) Describe the special precautions to be taken when treating hepatitis and AIDS patients. 6) Define and differentiate between, sterilization & disinfection. 7) Discuss the use of wiping agents for disinfecting & sterilizing purposes. 8) Demonstrate competence in: routine scrubbing of hands; preparation of instruments for sterilization of autoclaving and by dry heat.

WEEK 7

1) Describe body defenses and identify, by matching, the related terminology. 2) List the four major signs of inflammation and describe how inflammation helps to protect the body. 3) Describe the classifications of common lesions using the proper terminology. 4) Identify, by matching, diseases of the teeth, dental pulp, and oral soft tissues. 5) List the three major symptoms which could mean oral cancer and identify the following terms associated with

it: neoplasm, benign tumor, malignant tumor, squamous cell carcinoma, adenocarcinoma. 6) Identify, by matching, secondary oral disorders.

WEEK 8

- 1) Identify, by schedule, the major drugs covered by the Controlled Substances Act.
- 2) Identify the major routes of drug administration.
- 3) Describe the three types of drugs used in dentistry for the control of anxiety.
- 4) Differentiate between mild analgesics and strong analgesics, i.e., narcotics and synthetic narcotics.
- 5) Describe the specialized uses and hazards (in dentistry) of the antibiotics: penicillin, tetracycline, and erythromycin.
- 6) Describe the uses of vasoconstrictors, antihistamine drugs, corticosteroids, atropine sulfate, oxygen and hemostatics.
- 7) Describe obtaining local anesthetic by block and by infiltration injection techniques.
- 8) Identify the four stages of general anesthesia and describe agents most commonly used to produce general anesthesia.
- 9) Describe the use of nitrous oxide-oxygen relative analgesia in dentistry and identify the three planes of analgesia.
- 10) When told which tooth or area is to be anesthetized, demonstrate competence in placing topical anesthetic prior to an injection of local anesthesia.
- 11) Demonstrate competence in preparing a local anesthetic syringe.

WEEK 9

- 1) Identify the following terms: force (tensile, compressive, shearing), stress (tensile, compressive, shearing), strain, elasticity, elastic limit, modulus of elasticity & ultimate strength.
- 2) Differentiate between ductility and malleability and identify the following: flow, hardness, relaxation and distortion.
- 3) Describe thermal conductivity and thermal expansion and state why they are important in dentistry.
- 4) Discuss adhesion in terms of: viscosity, contact, angle, wetting, film thickness, and surface tension. State why these are of concern in dentistry.
- 5) Identify the following terms: hydrocolloid, sol, gel, eversible hydrocolloids, irreversible hydrocolloids, and gelation temperature.
- 6) Compare dental impression materials in terms of their composition characteristics, and use in dentistry.
- 7) Describe how powdered dental stone and plaster are reformed into solid gypsum including: comparative water/powder ratio, setting time, setting expansion, and the factors affecting final strength.
- 8) Identify the following terms relating to synthetic resins: polymer, monomer, polymerization, self-cured, and light-cured.
- 9) Discuss restorative resins in terms of composition and characteristics.
- 10) Describe acidetch techniques and bonding.
- 11) Identify the following terms relating to metals in dentistry: alloys, amalgam, cast structure, wrought structure, soldering, flux, and welding.

WEEK 10

- 1) Identify the key nutrients & describe their primary functions
- 2) Discuss the role of carbohydrates in nutrition & differentiate between monosaccharides, disaccharides, and polysaccharides.
- 3) Describe the role of fats in the diet and identify three types of fatty acids and their sources.
- 4) State the role of protein in the diet and identify the terms: complete protein, incomplete protein, and essential amino acids.
- 5) Identify essential vitamins and minerals by stating their primary function and listing one good source of each.
- 6) State why foods are divided into the four major food groups, identify foods found in each group, and note the

primary nutritional contributions of each group. Also, identify empty calories in terms of the foods containing them. 7) Describe the role of nutrition in dental caries. 8) Identify, by matching, terms and definitions, the oral manifestations of nutritional disorders. 9) Demonstrate competence in planning a special diet for a patient with an injured anterior tooth. 10) Demonstrate competence in dietary evaluation and counseling.

WEEK 11

1) Identify the need for preventive dentistry and discuss the cost of dental neglect. Also, discuss the role of the dental specialities

TOPICS AND SCOPE:

Inactive Date: 05/11/2009

Inactive Term: Fall 2009

- 1 4 LEC History of Dentistry
- 2 4 LEC The Dental Health Team
- 3 4 LEC Anatomy and Physiology
- 4 4 LEC Oral Embryology & Histology
- 5 4 LEC Tooth Morphology
- 6 4 LEC Microbiology and Sterilization
- 7 4 LEC Oral Pathology
- 8 4 LEC Pharmacology and Pain Control
- 9 4 LEC Dental Materials
- 10 4 LEC Nutrition
- 11 4 LEC Preventive Dentistry
- 12 4 LEC Applied Psychology
- 13 4 Lec The Special Patient
- 14 4 Lec Medical Emergencies
- 15 4 Lec Dental Instruments
- 16 4 Lec Dental Equipment for four-handed/six-handed dentistry: Use and care
- 17 4 Lec Instrument Transfer and Oral Evacuation
- 18 4 Lec FINAL EXAM

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

ASSIGNMENTS:

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

METHODS OF INSTRUCTION:

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

REPRESENTATIVE TEXTBOOKS:

Modern Dental Assisting's, Torres and Eherlich, 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: 185
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: C
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000456051
Sports/Physical Education Course: N
Taxonomy of Program: 124010