DA 60 Course Outline as of Fall 1998

CATALOG INFORMATION

Dept and Nbr: DA 60 Title: APPL DENT SCI
Full Title: Applied Dental Science
Last Reviewed: 2/25/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	17.5	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00 Total Student Learning Hours: 157.50

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	DE 52

Catalog Description:
Dental terminology, basic anatomy of the oral cavity, dental anatomy and physiology, oral embryology and histology, tooth morphology, classifications of cavities and restorations, preliminary oral inspection, charting conditions of the hard and soft tissues, taking and recording vital signs. The methods and techniques of sterilization and disinfection.

Prerequisites/Corequisites:
Admission to the Dental Assisting Program via application process.

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: Introduction to dental sciences including head & neck anatomy, dental anatomy, oral embryology, preliminary oral inspection. Practical application of infection control precedures in a dental office. (Grade Only)
Prerequisites/Corequisites: Admission to the Dental Assisting Program via application process.
Recommended:

Limits on Enrollment:
Transfer Credit: CSU;
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**			Effective:	Inactive:
CSU GE:	**Transfer Area**			Effective:	Inactive:
IGETC:	**Transfer Area**			Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Fall 1997	Inactive:	
UC Transfer:		Effective:		Inactive:	

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:
1. Define and interpret the general anatomical terms related to dental anatomy and the oral cavity.
2. Classify the bones and major anatomic landmarks of the skull.
3. Describe the histology of bone in terms of: cartilage, compact bone, spongy bone and the periosteum.
4. Describe the action of the tempromandibular joint.
5. Identify the major muscles of mastication, facial expression, the floor of the mouth and extrinsic muscles of the tongue.
6. Name the four pairs of paranasal sinuses.
7. Name, locate and describe the function of the salivary glands.
8. Identify the major anatomic landmarks of the oral cavity.
9. Describe tissue differentiation.
10. Assess the genetic factors that most commonly affect dental development.
11. Compare the five stages of development in the growth period of a tooth.
12. Describe and assess the characteristics of normal gingival tissue.
13. View and discuss developmental abnormalities.
14. Identify and differentiate the four types of teeth and describe their design, function and landmarks of each type.
15. Compare and examine the dental arches.
16. Use the universal charting system in charting and recording exercises.
17. Compare the primary and permanent dentition in terms of size, shape and number.
18. Explain/justify the legal implications and standard of care to establish and maintain a safe working environment.
19. Discuss the three most common methods of heat sterilization.

20. Discuss and demonstrate instrument decontamination procedures.

Topics and Scope:

I. Oral Embryology and Histology
  A. Oral Embryology
    1. Tissue differentiation
    2. Embryonic development of the face and oral cavity
    3. Factor influencing prenatal dental development
  B. Oral Histology
    1. Anatomic parts of a tooth
    2. Periodontium
  C. Tooth Morphology
    1. Types of teeth
    2. The Dental Arches
    3. Numbering Systems
    4. Anatomical Features
    5. Physiology of Occlusion
    6. The Primary Dentition
    7. The Permanent Dentition
  D. Sterilization, Disinfection, Infection Control
    1. ADA/CDC Guidelines
    2. Chain of infection
    3. Transmissible Diseases
    4. Methods of Sterilization
    5. Methods of Disinfection
  E. Infectious Disease
    1. AIDS
    2. Hepatitis
    3. Herpes
    4. TB
  F. Charting
    1. Classification of cavities
    2. Symbols
    3. Translation from oral examination

Assignment:

Reading assignments in reference texts and workbooks
Clinical application of charting skills
Assignment of modules in CHEC center

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework	Writing 5 - 30%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams	Problem solving 5 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Performance exams	Skill Demonstrations 30 - 60%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion	Exams 30 - 50%

Other: Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%

Representative Textbooks and Materials:
Torres and Ehrlich. Modern Dental Assisting. 5th Ed. 1996
Cottone. Practical Infection Control. Mosby. 2nd Ed.