



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2006-7 **NEXT REVIEW:** 2011-12 **STATUS:** A

COURSE TITLE: ALLIED DENTAL THEORY

COMMON COURSE NUMBER: DEA 0130

CREDIT HOURS: n/a

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS: 30

Lecture: 1 hour 50 minutes **Lab:** n/a

(Voc. Course ONLY)

Clinic: n/a **Other:** n/a

PREREQUISITE(S): DES 0021, DEA 0025

COREQUISITE(S): DEA 0831, DEA 0831L

COURSE DESCRIPTION: Designed to acquaint the student with basic concepts of microbiology and their relevance to sterilization. General aspects of oral pathology including common pathological conditions of the mouth, teeth and their supporting structures will be covered. Additional consideration will be given to the pharmacological properties, therapeutic applications and any toxicities or contraindications of drugs and medicaments commonly used in dentistry. Essential material on the symptoms, treatment and equipment required to render adequate care for the common office emergencies will be included.

UNIT TITLES

1. Dental Office Emergencies
2. Pharmacology
3. Oral Pathology
4. Microbiology



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ASSESSMENT:

Participation	5%	- attendance and professional accountability
Unit Exams	70%	
Final Exam	25%	

The student's letter grade for this course will be determined by the departmental percentage scale:

92 - 100 = A

83 - 91 = B

75 - 82 = C

66 - 74 = D

F



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UNITS

Unit 1 **Dental Office Emergencies**

General Outcome:

1.0 The student shall: Recognize the etiology, clinical signs, symptoms and treatment of common dental/medical emergencies.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1** State the reasons why there is an increase in office emergencies.
- 1.2** Discuss ways to prevent dental office emergencies.
- 1.3** List the basic rules for dental/medical emergencies when the doctor is present and when he is not in the office.
- 1.4** Demonstrate a working knowledge of clinic emergency drug kit.
- 1.5** Demonstrate the use of the portable oxygen tank.
- 1.6** Give the signs and symptoms of the most common dental emergencies.
- 1.7** State the treatment for the most common medical emergencies.
- 1.8** Give the signs and symptoms of the most common dental emergencies.
- 1.9** State the treatment for the most common dental emergencies.



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Unit 2 Pharmacology

General Outcome:

- 2.0 **The student shall:** Recognize commonly used drugs, medicament and preparations used in a dental office; identify various pharmacological preparations used in the treatment of common diseases and their affect on dental treatments.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1 Define pharmacology.
- 2.2 List the purpose of the various drug related agencies.
- 2.3 Identify the four sources of drugs.
- 2.4 Identify the various routes for drug administration.
- 2.5 Describe the care and storage of medications.
- 2.6 Demonstrate the working knowledge of prescription components and abbreviations used.
- 2.7 Identify the formulas used for calculating drug dosages.
- 2.8 State conditions that modify the action of drugs.
- 2.9 Identify the classification, action and the use of various pharmaceutical preparations.
- 2.10 Identify various medical conditions/medications that could modify/terminate dental treatment.
- 2.11 Review the American Heart Association recommendations for premedication of the medically compromised patient.



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Unit 3 Oral pathology

General Outcome:

3.0 The student shall: Identify the oral manifestations of various oral lesions and identify examples of specific types of malignant and benign neoplasms.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1** Define the study of pathology.
- 3.2** Define the causes and mechanisms of diseases.
- 3.3** Identify the various developmental disturbances.
- 3.4** Identify the common oral lesions of:
 - lips - floor of mouth
 - mucosa - palate
 - tongue
- 3.5** Identify various tooth anomalies that could be observed while charting the oral cavity.
- 3.6** Identify various secondary oral disorders.
- 3.7** Identify various calcification and eruption disturbance.
- 3.8** Identify various abnormal tissue lesions:
 - benign vs. malignant
- 3.9** Identify the types and causes of oral cancer and the preventive education that should be given to the patient who could be susceptible.



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Unit 4 **Microbiology**

General Outcome:

- 4.0 The student shall:** Review methods of disease transmission, the presence of microorganisms and the effects involved with the dental office today.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1** Debate the role of specific oral bacterias, viruses and spores found in the dental environment and relate their implications for sterilization and infection control assurances.
- 4.2** Correlate the major microorganisms of designated diseases with the dilemma of communicable transmission in the dental environment.
- 4.3** Define the mechanisms of disease patterns as they relate to factors that determine the invasive properties that could cause disease manifestations to occur.
- 4.4** Correlate the external defense mechanisms utilized in preventing infectious disease transmissions with the internal defense mechanisms that act to protect the body from specific antigens.