



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2006-7

NEXT REVIEW: 2011-12

STATUS: A

COURSE TITLE: DENTAL HYGIENE II

COMMON COURSE NUMBER: DEH 1802

CREDIT HOURS: 4

CONTACT HOUR BREAKDOWN
(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: 4 **Lab:** 0

Clinic: 0 **Other:** 0

PREREQUISITE(S): DEH 1003, DEH 1003L

COREQUISITE(S): DEH 1802L, DEH 1602

PRE/COREQUISITE(S):

COURSE DESCRIPTION: A course designed to provide further knowledge in the application of dental hygiene procedures. Instrument sharpening, dental hygiene treatment planning, ultrasonic scaling, periodontal charting, and public health dentistry are introduced.

UNIT TITLES

1. Medical Emergencies
2. Periodontal Charting – Phase II
3. Patient Care Planning/Risk Assessment
4. Indices
5. Soft tissue management
6. Case Presentation
7. Patient Management & Nutritional Counseling
8. Special Needs – Part I
9. Ultrasonic and Sonic scaling
10. Air polishing
11. Hypersensitive Teeth



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12. Irrigation
13. Removable Appliances
14. Supplemental Instruments

ASSESSMENT:

Grades will be determined by the following:

Tests	- 35%
Table Clinic	- 15%
Class participation	-10 %
Assignment	- 10%
Final Examination	- 30%

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 MEDICAL EMERGENCIES

General Outcome:

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

Specific Measurable Learning Outcomes:

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

1.1 Create a chart containing 1) signs and symptoms and 2) emergency procedures that should be implemented for the following emergency conditions:

respiratory failure	cardiac arrest
airway obstruction	adrenal crisis
hyperventilation	insulin reaction
syncope	diabetic coma
hemorrhage	allergic reaction
shock	epileptic seizure
stroke	burns
angina pectoris	foreign body in eye
myocardial infarction	chemical solution in eye
thyroid disease	asthma

1.2 State the uses of the following emergency drugs:

epinephrine 1:1000
Diazepam
Benadryl
naloxone
morphine sulfate
hydrocortisone sodium succinate
50% dextrose solution
atropine sulfate
Lidocaine
calcium chloride
sodium bicarbonate
methoxamine



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- 1.3 Describe the steps that can be taken to prevent a dental office emergency.
- 1.4 List common factors that may contribute to the risk of a medical emergency.
- 1.5 Describe the areas of patient assessment that can contribute to the recognition of potential emergency situations.
- 1.6 Describe the importance of comprehensive record keeping should a medical emergency arise.
- 1.7 State the importance of recognizing stress in a patient and the steps for stress reduction.
- 1.8 Explain the reaction between two CNS depressants that may create an emergency.
- 1.8 Describe the essential and supplementary equipment in a dental office emergency kit.
- 1.9 Discuss the reaction to epinephrine that may occur with a diabetic patient.
- 1.10 State the possible drug interactions that could create a dental emergency.
- 1.11 Describe the dental hygienist's role in a dental office emergency.
- 1.12 State the importance of practice and drills to prepare for an emergency.
- 1.13 Present a report to the class on an assigned dental emergency.



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Unit 2 PERIODONTAL CHARTING PHASE II

General Outcome:

2.0 The student shall: Specify the techniques used in a periodontal charting.

Specific Measurable Learning Outcomes:

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

- 2.1 Create a diagram indicating the location of the seven groups of principal fibers of the periodontal ligament and describe the function of each.
- 2.2 Describe the blood and nerve supply of the periodontal ligament.
- 2.3 Describe the clinical differences between health, gingivitis, and the various degrees of periodontal disease.
- 2.4 Describe how to record gingival inflammation, recession, probing depths, exudate, mobility, furcation involvement and mucogingival involvement.
- 2.5 Describe the examination of periodontal tissues, including peri – implant tissues.
- 2.6 Discuss the components of the periodontium, including both cortical and cancellous bone.
- 2.7 Differentiate among the four classes of furcation involvement.
- 2.8 Discuss the difference between a healthy sulcus and a periodontal pocket.
- 2.9 Differentiate between a pseudopocket and a periodontal pocket.
- 2.10 Describe the role of crevicular fluid in both health and diseased states.
- 2.11 Describe the presence and types of purulent exudates.
- 2.12 Correctly chart periodontal conditions.
- 2.13 Discuss the significance of occlusal trauma as it relates to periodontal status.
- 2.14 Relate periodontal charting to creating the patient care plan.
- 2.15 Describe the necessity of radiographic interpretation as it relates to classifying periodontal classification.
- 2.16 Describe the purpose of steps involved in completing a PSR.



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Unit 3 PATIENT CARE PLANNING PHASE II

General Outcome:

3.0 The student shall: Prepare a dental hygiene care plan.

Specific Measurable Learning Outcomes:

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

- 3.1 List six components of the diagnostic work up to develop the dental hygiene care/treatment plan
- 3.2 State four objectives of a dental hygiene care plan.
- 3.3 Differentiate between the dental hygiene care plan and the total care plan.
- 3.4 List three factors that will influence the sequence of the dental hygiene care plan.
- 3.5 Describe components of the following parts of a total patient care plan:
 - priority treatment
 - maintenance phase
 - preparatory phase
 - treatment phase
 - preventive phase
- 3.6 Explain the importance of re- evaluation of a previously treated area in care planning.
- 3.7 Define informed consent and state how patients indicate informed consent in the dental clinic.
- 3.8 Present a case history of a clinic patient.
- 3.9 Prepare a dental hygiene care plan using the case history.



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Unit 4 INDICES

General Outcome:

4.0 The student shall: Describe indices that are used in dentistry for individual patient assessment and epidemiological surveys.

Specific Measurable Learning Outcomes:

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

- 4.1 Name three purposes of an index.
- 4.2 Describe several calculus, plaque, debris, gingival, and periodontal indices.
- 4.3 Explain the (Ramfjord) Periodontal Disease Index Including the Calculus Score and the Dental Plaque Score.
- 4.4 State the uses of dental caries indices.
- 4.5 Given specific data, complete assigned calculus, plaque, gingival, caries, periodontal, and bleeding indices.
- 4.6 Describe the purpose of and the steps in completing a PSR.
- 4.7 Describe the classifications of patients that is used in the dental hygiene clinic:



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Unit 5 SOFT TISSUE MANAGEMENT

General Outcome:

5.0 The student shall: Discuss and prepare various soft tissue management programs.

Specific Measurable Learning Outcomes:

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

- 5.1** Define soft tissue management.
- 5.2** Describe various oral health conditions that require a soft tissue management program.
- 5.3** Describe several soft tissue management programs.
- 5.4** Give a detailed outline of a care plan that would accompany a soft tissue management case.
- 5.5** Discuss potential desired outcomes from treating a patient with soft tissue management.
- 5.6** Create a STM program for a simulated patient .



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Unit 6 CASE PRESENTATION

General Outcome:

- 6.0 The student shall:** Describe the components in case development, documentation and presentation.

Specific Measurable Learning Outcomes:

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

- 6.1** Give examples of the uses and applications of case development and documentation.
- 6.2** Describe several purposes for case presentation.
- 6.3** Describe the intended audience for a case presentation.
- 6.4** Describe goals and objectives of a case presentation.
- 6.5** Describe presentation strategies used for various patient types.
- 6.6** State the reasons for obtaining informed consent.
- 6.7** Simulate a case presentation in class.



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Unit 7 PATIENT MANAGEMENT & NUTRITIONAL COUNSELING

General Outcome:

7.0 The student shall: Provide nutritional counseling in relation to caries prevention and periodontal disease.

Specific Measurable Learning Outcomes:

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

- 7.1 Discuss the various types of patients that are seen in a dental office: pedo, adolescent, adult, geriatric, pregnant, medically compromised.
- 7.2 Explain the importance of home care to oral hygiene maintenance.
- 7.3 Describe the importance of oral health education in the prevention and management of disease.
- 7.4 Discuss specific theories associated with learning and human behavior principles.
- 7.5 Describe the essential components involved in communication of patient education.
- 7.6 Describe the process of dental hygiene care as it relates to patient education.
- 7.7 Describe specific oral hygiene practices and aids according to patient needs.
- 7.8 Describe eight principles of the teaching-learning process.
- 7.9 Explain the ethical issues involved in failure to communicate.
- 7.10 State the importance of nutritional counseling with patients.
- 7.11 Describe the importance of patient involvement in determining dietary modifications
- 7.12 State foods and eating habits that may impact the patient's caries rate and periodontal disease status.
- 7.13 State the RDA food sources and amounts for a healthy diet.
- 7.14 Prepare a personal diet diary for a seven day period.
- 7.15 Classify the foods into the food pyramid and compare the actual number of servings with the amounts recommended.
- 7.16 Explain the importance of follow up dietary appointments and evaluation.



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Unit 8 SPECIAL NEEDS – PHASE I

General Outcome:

8.0 The student shall: Discuss potential modifications of care for patients with systemic disorders, hormonal imbalances, emotional disabilities, as well as considerations with medications.

Specific Measurable Learning Outcomes:

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

- 8.1** List and describe the five major cardiovascular diseases.
- 8.2** Discuss the specific cardiovascular conditions that require antibiotic premedication prior to dental hygiene treatment.
- 8.3** Describe the medications associated with cardiovascular conditions and their possible dental implications.
- 8.4** Differentiate between hypoglycemia and hyperglycemia.
- 8.5** Describe oral findings that may occur with diabetes.
- 8.6** Describe appointment planning for the diabetic patient.
- 8.7** Describe alterations of dental hygiene care for the patient with a mental disorder.
- 8.8** Discuss oral findings related to a gerodontic patient.
- 8.9** Describe the role of hormones in the female patient.
- 8.10** Relate systemic effects of hormones to oral health.
- 8.11** Describe alterations of dental hygiene care specific to the pregnant patient.



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Unit 9 ULTRASONIC/SONIC SCALING

General Outcome:

9.0 The student shall: Explain the use of the ultrasonic/sonic scaler as an adjunct in the dental prophylaxis.

Specific Measurable Learning Outcomes:

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

- 9.1** State the indications for ultrasonic/sonic scaling.
- 9.2** List the contraindications for ultrasonic/sonic scaler use.
- 9.3** Explain the mode of action of the ultrasonic magnetostrictive scaler and the sonic scaler.
- 9.4** Describe unit preparation for ultrasonic/sonic scaler use.
- 9.5** Explain patient preparation for use of the ultrasonic/sonic scaler.
- 9.6** Discuss instrumentation techniques.
- 9.7** Compare the advantages and disadvantages to the ultrasonic/sonic scaler.
- 9.8** Explain the need to use curets after scaling with the ultrasonic/sonic scaler.



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Unit 10 AIR POLISHING

General Outcome:

10.0 The student shall: State the need to utilize and the procedure of airpolishing.

Specific Measurable Learning Outcomes:

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

- 10.1** List the indications for air polishing.
- 10.2** List the contraindications for use of the air polisher.
- 10.3** List and describe the steps in assembling the air polisher.
- 10.4** Describe the technique used in air polishing including the correct instrumentation angles used for anterior, posterior, and occlusal surfaces.
- 10.5** Describe the steps involved in the breakdown of the air polisher at the end of the dental appointment.
- 10.6** Discuss the advantages and disadvantages of the air polisher.



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Unit 11

HYPERSENSITIVE TEETH

General Outcome:

11.0 The student shall: Demonstrate an understanding of root hypersensitivity and describe methods of prevention and treatment of hypersensitive teeth.

Specific Measurable Learning Outcomes:

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

- 11.1** List four factors that contribute to root sensitivity.
- 11.2** Describe three types of pain stimuli.
- 11.3** Discuss three theories of pain impulse conduction.
- 11.4** State the action of desensitizing agents.
- 11.5** Describe four methods of desensitizing that the patient can perform.
- 11.6** Describe procedures for desensitizing with a sodium fluoride desensitizing paste.
- 11.7** Define iontophoresis.



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Unit 12

ORAL IRRIGATION

General Outcome:

- 12.0 The student shall:** Describe oral conditions which may require oral irrigation and discuss the need for in office use and home use for the patient.

Specific Measurable Learning Outcomes:

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

- 12.1** Describe chemotherapeutic agents used for oral irrigation and the selection process based on individual patient needs.
- 12.2** Describe various delivery systems for professional and home irrigation.
- 12.3** Determine the appropriate time in the treatment sequence to use antimicrobial irrigation therapy.
- 12.4** State the procedure for oral irrigation.



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Unit 13

CARE OF REMOVABLE APPLIANCES

General Outcome:

13.0 The student shall: Describe procedures for cleaning removable dental appliances.

Specific Measurable Learning Outcomes:

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

- 13.1** Describe methods of removal of full dentures and partial dentures with clasps when the patient is unable to remove them.
- 13.2** Explain denture and removable appliance care during intraoral procedures.
- 13.3** List four procedures for cleaning removable appliances.
- 13.4** Describe various oral hygiene aids that can be used at home for daily cleaning of and appliance.



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Unit 14

SUPPLEMENTAL INSTRUMENTS

General Outcome:

14.0 The student shall: List and describe supplemental instruments and their uses.

Specific Measurable Learning Outcomes:

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

- 14.1** Describe the hoe, file and chisel.
- 14.2** List the uses of the hoe, file and chisel.
- 14.3** State the contraindications for use of the hoe, chisel and file.
- 14.4** Describe the adaptation of the hoe, file and chisel. Describe the type of strokes used with each instrument.
- 14.5** Explain what is meant by "two point contact" when using the hoe scaler.