



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2006-7 **NEXT REVIEW:** 2014-2015 **STATUS:** A

COURSE TITLE: PRECLINICAL DENTAL HYGIENE LAB

COMMON COURSE NUMBER: DEH 1002L

CREDIT HOURS: 6

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS: n/a
(Voc. Course ONLY)

Lecture: n/a **Lab:** 12 hours

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

PREREQUISITE(S): BSC 1085, BSC 1085L

COREQUISITE(S): DEH 1003, BSC 1086, BSC 1086L, DEH2840L

COURSE DESCRIPTION : The laboratory portion of this course is designed to provide hands on instruction in the application of dental hygiene procedures with a detailed study of instrumentation. The course includes data collection and mastery of beginning techniques in dental patient care.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s): Area

General Education Requirements – Associate in Science Degree (AS), meets Area(s): Area

General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s): Area

UNIT TITLES

1. Operation and Maintenance of Equipment
2. Prevention of Disease Transmission
3. Patient / Operator Positioning
4. Basic Instrumentation –mirror, explorer
5. Sickle scalers and scalers
6. Curets
7. Periodontal Probe



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

Common Course Number: DEH 1002L

8. Personal Dental and Medical History
9. Vital signs
10. Extra Oral and Intra Oral Examination
11. Dental charting

ASSESSMENT:

The students will be assessed on the course outcomes as follows:

Pre Clinical Evaluations	70%
Daily Participation	10%
Clinical Final Examination	20%

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			



Common Course Number: DEH 1002L

Unit 1 Operation and Maintenance of Equipment

General Outcome:

- 1.0 The student shall:** Demonstrate correct operation and maintenance of equipment.

Specific Measurable Learning Outcomes:

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

- 1.1** Operate patient and clinician chairs.

Identify and demonstrate the power source, air and water sources, handpieces and the bracket table.
- 1.3** Demonstrate the use of compressed air and water in the mouth.
- 1.4** Locate power source for the view box.
- 1.5** Demonstrate use of the rheostat.
- 1.6** Identify and operate the high velocity and low velocity suction.
- 1.7** Identify patient and operator supplies stocked in the unit and maintain daily supply.
- 1.8** Secure the operatory unit at the end of the clinical day.



Common Course Number: DEH 1002L

Unit 2 Prevention of Disease Transmission

General Outcome:

2.0 The student shall: Demonstrate infection control procedures in the dental clinic.

Specific Measurable Learning Outcomes:

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

- 2.1** Apply knowledge of disease transmission to infection control of the dental operator.
- 2.2** Show the professionalism and dress for the dental hygienist as described in the Rules and Regulations.
- 2.3** Demonstrate antimicrobial handwashing technique utilized before and after treating patients.
- 2.4** Demonstrate the disinfection and basic set up of the dental operator.
- 2.5** Demonstrate the placement and use of barriers in the dental operator.
- 2.6** Document infection control measures utilized for treatment of the dental patient.
- 2.7** Demonstrate infection control measures concerning care of the dental patient, including keeping instruments in the cassette, gauze on the bracket table, keeping the patient napkin free from all debris and disposing of contaminated disposables properly.
- 2.8** Demonstrate the clean up and waste disposal methods utilized following patient treatment in the operator.
- 2.9** Utilize two methods for cleaning instruments in preparation for sterilization.
- 2.10** Demonstrate the packaging, sealing and labeling of instruments in preparation for sterilization.
- 2.11** Select the best sterilizer for a given instrument to be sterilized.
- 2.12** Identify the solutions utilized in the various sterilizers.
- 2.13** Run a sterilizing cycle for each of the dental sterilizers.



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

Common Course Number: DEH 1002L

- 2.14 State the time/temperature/pounds per square inch utilized for all of the clinic dental sterilizers.
- 2.15 Identify the correct biological monitor for the sterilizers in our clinic.
- 2.16 Correctly utilize personal protective equipment.
- 2.17 Demonstrate correct disposal of sharps.
- 2.18 Demonstrate disinfection of water lines.



Common Course Number: DEH 1002L

Unit 3

Patient / Operator Positioning

General Outcome:

3.0 The student shall: Demonstrate the basic concepts of positioning, including correct patient positioning, operator positioning, and light positioning,

Specific Measurable Learning Outcomes:

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

- 3.1 Demonstrate ergonomics in the dental environment.
- 3.2 Demonstrate correct operator positioning.
- 3.3 Align the proper height and chair back position of the operator chair.
- 3.4 Demonstrate proper patient position for working on the maxilla and mandible.
- 3.5 Demonstrate correct positioning and instrumentation in each sextant of the mouth.
- 3.6. Demonstrate the correct position of the dental light for the maxilla and the mandible.
- 3.7 Demonstrate areas of instrumentation for the 8 and 9 o'clock positions.
- 3.8 Demonstrate areas of instrumentation for the 11 and 12 o'clock positions.
- 3.9 Place bracket table and instruments in the proper position for dental treatment.



Common Course Number: DEH 1002L

Unit 4 Basic Instrumentation –Mirror, Explorer

General Outcome:

4.0 The student shall: Demonstrate the basic concepts of instrumentation including correct patient and operator positioning, light positioning and instrument grasp, fulcrum, adaptation, and stroke when using the explorer and mirror.

Specific Measurable Learning Outcomes:

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

- 4.1 Demonstrate a modified pen grasp.
- 4.2 Demonstrate use of the intra-oral fulcrum in each sextant of the mouth utilizing the explorer and the mouth mirror. .
- 4.3 Demonstrate correct placement of instruments and supplies on bracket table during instrumentation.
- 4.4 Describe the design features and parts of the dental mirror.
- 4.5 Using the modified pen grasp, use the dental mirror for retraction, illumination, indirect vision and transillumination.
- 4.6 Describe the design features of the explorer.
- 4.7 Using the modified pen grasp, describe and demonstrate tactile sensitivity through exploration.
- 4.8 Detect supra and subgingival calculus using the 11/12 explorer
- 4.9 Demonstrate horizontal, vertical, oblique, and circumferential strokes.
- 4.10 Utilize correct instrumentation with the 11/12 explorer including correct insertion and adaptation.
- 4.11 Activate the explorer with light pressure using systematic overlapping and controlled strokes
- 4.12 Identify demonstrate use of the 23 explorer.



Common Course Number: DEH 1002L

Unit 5 Scalers

General Outcome:

The student shall: Demonstrate the correct use of scalers in the mouth utilizing the correct patient operator positioning.

Specific Measurable Learning Outcomes:

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

- 5.1** Identify the shank, cutting edges, face, back, and toe of anterior and posterior sickle scalers.
- 5.2** Using the modified pen grasp, demonstrates proper insertion, adaptation, angulation and lateral pressure of sickle scalers/scalers.
- 5.3** Demonstrate the correct use of the anterior scalers in the mouth.
- 5.4** Demonstrate the correct use of the posterior scalers in the mouth.



Common Course Number: DEH 1002L

Unit 6

Curets - Universal and Area Specific

General Outcome:

6.0 The student shall: Demonstrate the correct use of curets in the mouth utilizing the correct patient operator positioning.

Specific Measurable Learning Outcomes:

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

- 6.1** Identify the shank, cutting edges, face, back, and toe of all universal and area specific curets.
- 6.2** Using the modified pen grasp, demonstrates proper insertion, adaptation, angulation and lateral pressure of universal and area specific curets.
- 6.3** Demonstrate the correct use of the anterior area specific curets in the mouth.
- 6.4** Demonstrate the correct use of the posterior area specific curets in the mouth.
- 6.5** Demonstrate the correct use of universal curets in all areas of the mouth.



Common Course Number: DEH 1002L

Unit 7 Periodontal Probe

General Outcome:

- 7.0 The student shall:** Perform a basic periodontal examination on an assigned patient, recording findings and identifying conditions that require further evaluation prior to the delivery of dental hygiene care.

Specific Measurable Learning Outcomes:

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

- 7.1** Describe the design features of the probe.
- 7.2** Identify the markings on the calibrated periodontal probes.
- 7.3** Using the modified pen grasp, demonstrate correct use of the periodontal probe in all areas of the mouth, including operator positioning and insertion points.
- 7.4** Maintain the working end of the probe as parallel as possible to the long axis of the tooth.
- 7.5** Walk the probe within the sulcus.
- 7.6** Complete a basic periodontal chart on a student partner. Correct charting will include:

Pocket depths	Bleeding points
Recession	Mobility



Common Course Number: DEH 1003L

Unit 8 Personal Dental and Medical / Dental History

General Outcome:

The student shall: Obtain a personal, dental, and medical history, and describe its application information for dental hygiene treatment planning.

Specific Measurable Learning Outcomes:

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

- 8.1 Obtain a complete personal, medical, and dental history on a clinic patient.
- 8.2 State the importance of the personal, medical and dental history.
- 8.3 Identify medications and oral implications associated with each.
- 8.4 Identify the medical and dental disorders that require further information before delivering dental hygiene care.
- 8.5 Identify the conditions requiring medical consult prior to dental or dental hygiene treatment.
- 8.6 State the type of premedications possibly needed prior to dental hygiene treatment.
- 8.7 Identify conditions requiring prophylactic premedication.
- 8.8 Discuss the importance of updating the health history prior to each dental hygiene appointment.



Common Course Number: DEH 1003L

Unit 9 Vital Signs

General Outcome:

- 9.0 The student shall:** Take vital signs, complete proper documentation, and describe application of information for dental hygiene treatment planning.

Specific Measurable Learning Outcomes:

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

- 9.1** Take the vital signs including blood pressure, pulse and respiration on a student partner.
- 9.2** Identify abnormal vital sign readings that require further information before delivering dental hygiene care.
- 9.3** Identify abnormal vital sign readings that require physician referral



Common Course Number: DEH 1003L

Unit 10 Extra Oral and Intra Oral Examinations

General Outcome:

10.0 The student shall: Perform an extra oral and intra oral examination of a student partner, completing proper documentation and describing application of information for the dental hygiene treatment plan.

Specific Measurable Learning Outcomes:

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

- 10.1** Perform a complete extra oral and intra oral examination on a student partner.
- 10.2** Identify structures for inspection, auscultation and palpation.
- 10.3** Distinguish between typical and abnormal findings.
- 10.4** Demonstrate bimanual, bidigital and digital palpations.
- 10.5** Record findings from the extra oral and intra oral examination on the patient chart.
- 10.6** Identify examination findings which require further information prior to delivery of dental hygiene care.



Common Course Number: DEH 1003L

Unit 11

Dental Charting

General Outcome:

11.0 The student shall: Demonstrate correct dental charting of an assigned patient utilizing radiographs and direct visual techniques.

Specific Measurable Learning Outcomes:

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

- 11.1** Describe tooth numbering systems.
- 11.2** Identify/ chart abfraction, attrition, abrasion and erosion.
- 11.3** Chart oral conditions on a classmate using a mirror and explorer.
- 11.4** Identify and chart radiographic abnormalities.
- 11.5** Record examination findings that require further information prior to delivery of dental hygiene care.