

LAST REVIEW: 2010 - 2011

NEXT REVIEW: 2015 - 2016

STATUS: A

COURSE TITLE: PRECLINICAL LABORATORY

COMMON COURSE NUMBER: DEA 0025L

CREDIT HOURS:

CONTACT HOUR BREAKDOWN

CLOCK HOURS: 120

(Voc. Course ONLY)

Lecture:

Lab: 7.5

Clinic:

Other: N/A

PREREQUISITE(S): N/A

COREQUISITE(S): DES 0830, DES 0103, DEA 0025

PRE/COREQUISITE(S): N/A

COURSE DESCRIPTION Designed to provide hands on instruction of use and sterilization of all instruments and equipment used in the practice of dentistry.

UNIT TITLES

1. The Dental Treatment Room
2. Implementation of Infection Control
3. Sterilization Procedures
4. Implementation of Four-Handed Principle
5. Evacuation of the Oral Cavity
6. Handpieces and Rotary Cutting Instruments
7. Instrument Transfer
8. Clinical Oral Diagnosis
9. Emergency Equipment and Policy
10. Oral Prophylaxis
11. Local Anesthesia
12. Restorative and Cosmetic Dentistry
13. Removable Prosthodontics
14. Oral Surgery
15. Endodontics
16. Periodontics
17. Fixed Prosthodontics
18. Externships

EVALUATION:

Grades will be determined by Laboratory/Clinical Evaluations and Tests

Clinical evaluations for competency	50%
Professional daily grade	20%
Dental externship	15%
Instrument Practical	15%
Total	100%

There will be no make-up test for the instrument practical.

It is the student's responsibility to sign up for their evaluations the day the sign up sheet is posted. Failure to do so will result in a zero grade for the evaluation. In this circumstance the student may have the opportunity to retake the missed evaluation only upon requesting permission from faculty. The evaluation will be graded out of 50 points in place of the original 100 points and will be factored into the above 50% devoted to "Clinical evaluations for competency".

If more than one attempt is required for the student to achieve the designated minimum level of competency (75%), the student's first graded attempt will be the one factored into the course grade. No more than three attempts total are permitted. The student must achieve an acceptable attempt in all evaluations regardless of grade, in order to satisfy the requirements of this course.

Professional daily grade is based on professionalism, participation, infection control, patient safety and procedures, and appearance. Two points will be deducted for each infraction, with the exception of infection control and patient safety, which ten point deductions.

It is a requirement all students are prepared for all class sessions upon entering the class at the start time. Any unprepared student will receive a deduction from their daily evaluation sheet and will be counted late for the class session.

**ALL THE EQUIPMENT IN THE DENTAL CLINIC MUST BE RESPECTED AND MAINTAINED.
IMMEDIATE PROGRAM DISMISSAL WILL RESULT IN INSTRUMENT/EQUIPMENT ABUSE.**

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

A final grade of "C" or higher must be achieved in all Dental Assisting courses for continuance in the Program.

All graded examinations and projects will be retained by the Dental Assisting Department for the purpose of maintaining the student's academic records. The student may have access to his/her file. An appointment may be necessary to do so.

ACADEMIC DISHONESTY:

If a student commits any act of academic dishonesty according to BC Policy 6Hx2-5.02, such as but not limited to cheating or plagiarism, that student will receive an "F" grade for the course and may also be subject to disciplinary procedures in accordance with college policy. The Student Code of Conduct, BC Policy 6Hx2-5.02, gives a description of what acts may constitute academic dishonesty. These descriptions are also included in the BC Student Handbook and in the BC College Catalog. (Be aware as stated in the Dental Assisting Student Handbook any act of Academic Dishonesty will result in the immediate dismissal of the student from the Dental Assisting Program and does not merit previous written warning.)

DISRUPTIVE STUDENT POLICY:

All students will be bound by BC policy 6Hx2-5.19. Students who cannot conform to the standards of appropriate behavior as set forth in BROWARD COLLEGE Policy 6Hx2-5.02, Student Responsibilities, shall not be permitted to interfere with other students' access to a college education. If in the opinion of the faculty the student is disruptive, faculty may ask a student to leave the classroom for the class period. The student will be permitted to return upon the permission of the faculty.

ATTENDANCE:

Attendance and punctuality are highly recommended for each course. When the student is absent or late the student must call the course instructor as early as possible to inform the instructor. If the instructor cannot be reached then call the Associate Dean at 954-201-6904. If it is necessary to leave a message at either location please include a telephone number where you can be reached. Absences are recorded in the PARTICIPATION portion of your final grade. If a student is absent on day of clinical rotation to NOVA or dental office, the student must make up clinical hours at their assigned rotation during final exams week.

Three (3) absences in a class will be cause for review and dismissal from the program. Three (3) lates are equal to one absence and are included in the 3 days. Arriving 15 minutes late or leaving 15 minutes early will result in an absence unless the instructor has given prior approval.

Non-Class Days: Should unanticipated circumstances that are beyond anyone's control or when concerns are raised about the safety and/or security of the students, faculty, and staff, the President or his/her designee has the authority to close a campus or the College. For purposes of grading and attendance policies, the day(s) during which the campus/college is closed shall be considered a non-class day(s). When this occurs, each faculty member shall determine how best to make up the lost class time.

Excused/Non-Penalized Absences: There shall be no penalty for a student who is absent from academic activities because of religious holy day observances in his/her own faith, the student's serious illness, a death in the immediate family, or attendance to statutory governmental responsibilities. The student is responsible to bring documentation of any of these to the faculty member within ten days of this absence. In the case of jury duty, please contact the Associate Dean to receive a letter of full time student status to present to the courts for deferral.

Student Responsibilities Relative to Excused/Non-Penalized Absences: A student shall notify instructors in advance of absence(s) to observe a religious holy day(s) in his/her own faith, and shall likewise notify instructors in advance of other absences when practicable under the circumstances. "Death in the immediate family" shall be interpreted to mean mother, father, spouse, child, brother, sister, grandparents, or grandchildren. "Statutory governmental responsibilities" refer to such matters as jury duty, subpoena for court appearance or unplanned military obligation. If a non-penalized absence occurs on the first day of class, the student shall notify the instructor of the reason for his/her absence at the next class meeting. Documentation for non-penalized absences must be presented by the student to the faculty member within ten days of this absence. The student shall be responsible for the material covered in his/her absence and shall be granted a reasonable amount of time to make up any work or test missed for excused/non-penalized absences.

Important Notice

Starting fall 2007, faculty will report student non-attendance. If you stop attending class prior to the withdrawal date, you will be administratively withdrawn from class and receive a W or, if it is your third attempt, an F.

If you stop attending class after the withdrawal date, you will receive a WF that will then be computed as an F in your GPA. To avoid this situation, you should remain an active learner in this class and always communicate extenuating circumstances to me. Ongoing communication with the instructor is critical to your course success.

If a student does not attend classes within two weeks after the Drop/Add period in each session, he/she will be withdrawn from classes or receive a failing grade for non-attendance. In either case, no refund will be given.

Requirements for class attendance are determined by the instructor and will be outlined in the course syllabus. It is the student's responsibility to attend classes to ensure that he/she is properly enrolled.

Common Course Number: DEA 0025L

UNITS

Unit 1 The Dental Treatment Room

General Outcome:

- 1.0 The student shall:** Identify the parts, function and care of dental equipment in the dental treatment room.

Specific Measurable Learning Outcomes:

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

- * 1.1 Identify and demonstrate the operation of both types of dental chairs/units in the clinic/radiology area.
- * 1.2 Differentiate the hoses and switches for the operation of the dental handpieces.
- * 1.3 Identify the source of power and water flow for each dental unit.
- * 1.4 Indicate the source and attachments needed for the oral evacuation/air systems.
- * 1.5 Identify and demonstrate the operation and power source for the dental assistant carts.
- * 1.6 Identify and demonstrate the operation of the dental viewbox.

*THERE IS A COMPETENCY-BASED PERFORMANCE EVALUATION FOR THIS OBJECTIVE

Common Course Number: DEA 0025L

Unit 2 Implementation of Infection Control

General Outcome:

- 2.0 The student shall:** Demonstrate stated dress code and professionalism in all laboratory/ clinical areas, proper hand washing technique and the disinfection and preparation of the dental operator.

Specific Measurable Learning Outcomes:

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

- * 2.1 Demonstrate the professionalism and dress for the dental assistant as described in the Rules and Regulations.
- 2.2 Demonstrate antimicrobial hand washing technique utilized before and after treating patients.
- 2.3 Demonstrate the disinfection and basic set up of the dental treatment room.
- 2.4 Demonstrate the placement and use of barriers in the dental treatment room.
- 2.5 Document infection control measures utilized for treatment of the dental patient.
- 2.6 Demonstrate the cleanup and waste disposal methods utilized following patient treatment in the treatment room.

*THERE IS A COMPETENCY-BASED PERFORMANCE EVALUATION FOR THIS OBJECTIVE

Unit 3 Sterilization Procedures

General Outcome:

3.0The student shall: Prepare the acceptable OSHA/CDC disinfection and sterilization solutions, demonstrate safety and waste disposal methods to prevent disease transmission and demonstrate use and techniques of equipment for sterilization.

Specific Measurable Learning Outcomes:

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

- 3.1 Utilize two methods for cleaning instruments in preparation for sterilization.
- * 3.2 Demonstrate the packaging, sealing and labeling of instruments in preparation for sterilization.
- * 3.3 Select the best sterilizer for a given instrument to be sterilized.
- * 3.4 Identify the solutions utilized in the various sterilizers.
- * 3.5 Run a sterilizing cycle for each of the dental sterilizers.
- * 3.6 State the time/temperature/pounds per square inch utilized for all of our dental sterilizers.
- * 3.7 Identify the correct biological monitor for the sterilizers in our clinic.

***THERE IS A COMPETENCY-BASED PERFORMANCE EVALUATION FOR THIS OBJECTIVE**

Unit 4 Implementation of Four-Handed Principle

General Outcome:

4.0The student shall: Transfer the various dental instruments utilizing the correct grasps and body mechanics and show the correct seating position for a patient and the dental team.

Specific Measurable Learning Outcomes:

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

- 4.1 Identify the various operating zones and their function as they relate to the implementation of four-handed dentistry.
- 4.2 Adjust operator/assistant chairs for correct body positioning.
- 4.3 Preposition the dental chair for the comfort and safety before seating the patient.
- 4.4 Organize patient records and seat the assigned dental patient.
- 4.5 Adjust the positioning for the patient, assistant and operator for the dental procedure needing to be done.
- 4.6 Instruct the patient for movements to best obtain visibility for the operator during the procedure.
- 4.7 Dismiss the dental patient.

Unit 5 Evacuation of the Oral Cavity

General Outcome:

5.0 The student shall: Demonstrate the grasps and correct positioning of the evacuator tip for various areas in the oral cavity, clean and maintain the evacuation system.

Specific Measurable Learning Outcomes:

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

- 5.1 Position the saliva ejector correctly for the given area being restored in the oral cavity.
- 5.2 Approach and evacuate the oral cavity during the dental procedure being performed.
- 5.3 Switch evacuation grasps depending on the resistance of tissue to successfully retract and evacuate the oral cavity.
- 5.4 Utilize the air/water syringe and high-speed evacuator for the complete or limited rinsing needed during the dental procedure.
- 5.5 Clean and disinfect the evacuation system.

Common Course Number: DEA 0025L

Unit 6 Hand pieces and Rotary Cutting Instruments

General Outcome:

6.0 The student shall: Select the correct dental handpiece for a specific dental procedure.

Specific Measurable Learning Outcomes:

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

- 6.1 Identify burs by shank and number series for the dental procedures.
- 6.2 Mount correct handpieces to hoses and insert the correct bur shank design into the corresponding handpiece.
- 6.3 Manipulate the various attachments designed for the handpiece designated for use.
- 6.4 Demonstrate the maintenance procedure designed for the high speed handpieces.
- 6.5 Demonstrate the maintenance procedure designed for the low speed handpiece and its attachments.

Unit 7 Instrument Transfer

General Outcome:

7.0 The student shall: Transfer the various dental instruments utilizing the correct grasps and body mechanics.

Specific Measurable Learning Outcomes:

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

- 7.1 Correlate the correct grasp for the design of instruments being transferred.
- 7.2 Demonstrate the various transfer and exchanges of dental instruments with a dental operator.
- 7.3 Limit the motions necessary during the transfer of the dental instruments.
- 7.4 Anticipate the transfer/exchange of the dental handpiece.
- 7.5 Utilize a fulcrum when practicing instrument transfer as an operator.
- 7.6 Identify various dental instruments and explain their specific function.

Unit 8 Clinical Oral Diagnosis

General Outcome:

8.0 The student shall: Locate and assemble equipment and instruments needed for oral diagnosis and treatment planning procedures.

Specific Measurable Learning Outcomes:

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

- 8.1 Comprehend the utilization of instruments needed for the diagnosis and treatment planning of a patient.
- 8.2 Locate and assemble the materials needed for the first diagnosis and treatment planning appointment.
- 8.3 Record the clinical information dictated during the examination of an assigned patient.
- 8.4 Discuss the treatment plan communication given by the assigned doctor to the patient.
- 8.5 Assist instructor by providing information necessary to communicate fees and appointments to the accepted patient.
- 8.6 Prepare contaminated instruments and/or materials for the cleaning and sterilization process.
- 8.7 Dispose of contaminated materials correctly in the red bags and place in the Hazard Waste container.

Unit 9 Emergency Equipment and Policy

General Outcome:

9.0 The student shall: Locate/recognize equipment and procedure for emergency treatment necessary for patient care.

Specific Measurable Learning Outcomes:

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

- 9.1 Locate and be able to turn on the oxygen tank if needed.
- 9.2 Locate and open the clinical emergency kits available.
- 9.3 Understand the responsibilities of the student in the event of a medical emergency in the operatory.

Unit 10 Oral Prophylaxis

General Outcome:

10.0 The student shall: Recognize and assemble the armamentarium and supplies needed to perform an oral prophylaxis.

Specific Measurable Learning Outcomes:

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

- 10.1 Assemble instruments and materials necessary for any of the periodontal accessory or prophylaxis procedures.
- 10.2 Discuss the care of dental appliances during the prophylaxis appointment.
- 10.3 Record the sequential order of treatment and materials utilized in the prophylaxis procedure.
- 10.4 Prepare contaminated instruments and/or materials for the cleaning and sterilization process.
- 10.5 Dispose of contaminated materials correctly in the red bags and place in the Hazard Waste container.

Unit 11 Local Anesthesia**General Outcome:**

11.0 The student shall: Demonstrate the knowledge/assembly/and safety for the use of the various local anesthetics.

Specific Measurable Learning Outcomes:

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

- * 11.1 Identify the types of anesthetic syringes.
- * 11.2 Differentiate the anesthetic solutions, the length of their effectiveness and the types of procedures they are used for.
- * 11.3 Differentiate the variety of needle sizes by gauge, length and indicate the area utilized.
- * 11.4 Specify the vasoconstrictor utilized in anesthetic solutions and recognize the medical complications that could arise from their use.
- * 11.5 Indicate the injection sites and the type of injection utilized for variety of procedures.
- * 11.6 Demonstrate the complete assembly of the anesthetic syringe.
- * 11.7 Coordinate the correct transfer and retrieval of topical and anesthetic syringe with the utilization of the light and rinsing/evacuation of the oral cavity.
- * 11.8 Demonstrate the correct disposal of the contaminated anesthetic needle.

*THERE IS A COMPETENCY-BASED PERFORMANCE EVALUATION FOR THIS OBJECTIVE

Unit 12 Restorative and Cosmetic Dentistry**General Outcome:**

12.0 The student shall: Assemble armamentarium/supplies and demonstrate the sequence of an amalgam and composite restoration.

Specific Measurable Learning Outcomes:

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

- 12.1 Assemble instruments and materials necessary for the amalgam restorative procedure.
- 12.2 Assemble instruments and materials necessary for any of the restorative composite restorations.
- 12.3 Position and assist the doctor utilizing the basic skills that have been taught.
- 12.4 Record the sequential order of treatment and materials utilized in the restorative procedures.
- 12.5 Prepare contaminated instruments and/or materials for the cleaning and sterilization process.
- 12.6 Clean and disinfect the operatory area and document the procedure.
- 12.7 Dispose of contaminated materials in the red bags and place in the Hazard Waste container.

Unit 13 Removable Prosthodontics

General Outcome:

13.0 The student shall: Identify the armamentarium, supplies and various procedures for the removable prosthodontics.

Specific Measurable Learning Outcomes:

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

- 13.1 Select instruments for their uses in the construction of the removable prosthesis.
- 13.2 Prepare the various dental materials in conjunction with the particular stage of treatment being done.
- 13.3 Position to assist the doctor utilizing the basic skills that have been taught.
- 13.4 Utilize the infection control measures taught for the removable appliances and impressions taken during the treatment procedure.
- 13.5 Record the sequential order of treatment and materials utilized in the procedure.
- 13.6 Prepare contaminated instruments/materials for the cleaning and sterilization process.
- 13.7 Clean and disinfect the operatory area and document the procedure.
- 13.8 Dispose of contaminated materials in the red bags and place in the Hazard Waste container.

Common Course Number: DEA 0025L

Unit 14 Oral Surgery

General Outcome:

14.0 The student shall: Identify the armamentarium, supplies and various procedures for the oral surgery.

Specific Measurable Learning Outcomes:

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

- 14.1 Select the instruments needed for the assigned procedure to be done.
- 14.2 Recognize the aseptic measures utilized before, during and after the surgical procedures as they pertain to asepsis.
- 14.3 Obtain the signature of the patient on the surgical consent form before treatment is to begin.
- 14.4 Communicate with instructor for fee quote to be given to patients for impactions or extensive surgical procedures before treatment is to begin.
- 14.5 Position to assist the doctor utilizing the basic skills that have been taught.
- 14.6 Communicate postoperative instructions to the patient as they pertain to the procedure that was done.
- 14.7 Fill in the patient's name and address on the top of the medical prescription and obtain the doctor's DEA number if needed.
- 14.8 Record the sequential order of treatment and materials.
- 14.9 Prepare instruments for sterilization, clean and disinfect the treatment room area and document procedure.
- 14.10 Dispose of contaminated waste materials in the red bag and place in the Hazard Waste container.
- 14.11 Clean and disinfect the evacuation system.

Common Course Number: DEA 0025L

Unit 15 Endodontics

General Outcome:

15.0 The student shall: Identify the armamentarium, supplies and various procedures for the endodontic treatment.

Specific Measurable Learning Outcomes:

- 15.1 Select the instrument and medicaments needed for the assigned procedure to be done.
- 15.2 Recognize the danger in handling and use of medicaments used in the root canal therapy.
- 15.3 Recognize the need for high-speed evacuation and precautions to be recognized during the debridement of the canals.
- 15.4 Obtain the length of the files utilizing the information from the cart and the measuring gauge and stops.
- 15.5 Light and adjust the burners utilized in the filling of the canals.
- 15.6 Position to assist the doctor utilizing the basic skills that have been taught.
- 15.7 Fill in the patient's name and address on top of the medical prescription and obtain the doctor's DEA number if it is needed on the prescription.
- 15.8 Record the sequential order or treatment, materials utilized and medical script if given for the procedure.
- 15.9 Prepare instruments for sterilization, clean and disinfect the operatory area and document the procedure.
- 15.10 Dispose of contaminated materials correctly in Hazard Waste container.

Common Course Number: DEA 0025L

Unit 16 Periodontics

General Outcome:

16.0 The student shall: Identify the armamentarium, supplies and various procedures for the periodontal treatment.

Specific Measurable Learning Outcomes:

- 16.1 Select the instruments needed for any of the assigned periodontal procedures.
- 16.2 Prepare materials needed for Root Planning & Curettage clinical sessions.
- 16.3 Recognize the aseptic measures utilized before, during and after any surgical procedure as they pertain to asepsis.
- 16.4 Position to assist the doctor utilizing the basic skills that have been taught.
- 16.5 Communicate post-operative instructions to the patient as they pertain to the procedure that was done.
- 16.6 Fill in the patient's name and address on the top of any medical prescription given and obtain the doctor's DEA number if needed.
- 16.7 Record the sequential order of treatment, materials, communication instructions and medical script information utilized for the procedure that was done.
- 16.8 Prepare instruments for sterilization, clean and disinfect the operatory area and document the procedure.
- 16.9 Dispose of contaminated waste materials in the red bag and place in the Hazard Waste container.
- 16.10 Clean and disinfect the evacuation system after surgery.

Unit 17 Fixed Prosthodontics

General Outcome:

17.0 The student shall: Identify the armamentarium, supplies and various procedures for fixed prosthodontics.

Specific Measurable Learning Outcomes:

- 17.1 Select the instruments and materials needed to prepare the teeth for the fixed prosthesis.
- 17.2 Position to assist the doctor utilizing the basic skills that have been taught.
- 17.3 Manipulate the materials needed for impressions taken and shade guides used in the procedure.
- 17.4 Utilized infection control measures for impression taking and construction of the temporaries.
- 17.5 Record the sequential order of treatment and materials utilized in the procedure.
- 17.6 Prepare instruments for sterilization, clean and disinfect the operatory area and document the procedure.
- 17.7 Dispose of contaminated waste materials in the red bag and place in the Hazard Waste container.

Common Course Number: DEA 0025L

Unit 18 Externships

General Outcome:

18.0 The student shall: Knowledge of chair side skills when performing at extern locations.

Specific Measurable Learning Outcomes:

- 18.1 Follow the professionalism guidelines set forth the Dental Assisting Department of Broward College.
- 18.2 Assist the doctor utilizing the skills that have been taught.
- 18.3 Manipulate the materials utilized in each specific procedure.
- 18.4 Practice Infection control measures.
- 18.5 Follow the procedural practices of each specific externship.
- 18.6 Complete a desired/ required log for each externship procedure.

There is a competency based performance evaluation for this objective.