

**LAST REVIEW: 2010 - 2011**

**NEXT REVIEW: 2015 - 2016**

**STATUS: A**

**COURSE TITLE: EXPANDED FUNCTIONS II LABORATORY**

**COMMON COURSE NUMBER: DES 0831L**

**CREDIT HOURS:**

**CONTACT HOUR BREAKDOWN**

**CLOCK HOURS: 60**

*(Voc. Course ONLY)*

**Lecture: 0**

**Lab: 3.8**

**Clinic:**

**Other: N/A**

**PREREQUISITE(S):** DES 0830, DEA 0025 and DEA 0025L

**COREQUISITE(S):** DES 0801, DES 0801L and DEA 0831

**PRE/COREQUISITE(S):** n/a

**COURSE DESCRIPTION** This course is designed to be a continuation of Dental Auxiliary Expanded Functions I. It will provide the clinical practice necessary to perform the more complex Expanded Functions permitted by the Rules and Regulations of the Florida State Board of Dentistry.

### **UNIT TITLES**

1. Fabrication of Bleach Trays/Tooth Whitening
2. Polishing Teeth and Restorations
3. Topical Fluoride Applications
4. Pit & Fissure Sealants
5. Placing & Removing Periodontal Dressings
6. Chairside Temporary Crowns/Bridges
7. Nitrous Oxide Sedation
8. Placing and Removal of Gingival Retraction Cord
9. Orthodontic Applications

**EVALUATION:** Grades will be determined by the Unit Laboratory Practical evaluations designating the minimum level of competency that must be achieved on each practical evaluation. If multiple attempts are required for the student to achieve the designated minimum level of competency, the student's grade will be the percentage achieved on the first graded attempt.

Unit Laboratory Practical Evaluations	70%
Comprehensive Practical Examination	20%
Bleaching trays	<u>10%</u>
Total	100%

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

92 - 100 = A  
83 - 91 = B  
75 - 82 = C  
66 - 74 = D

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F

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

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 each evaluation regardless of grade, in order to satisfy the requirements of this course.

It is the student's responsibility to sign up for their evaluations the day the signup sheet is posted. Failure to do so will result in a zero grade for the evaluation.

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 upon request. An appointment may be necessary to do so.

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

For a certificate to be issued for any Expanded Function, the student must be evaluated and demonstrate Clinical Competency for each function.

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 mandatory for this course. When absent or late, the student is required to call the Dental Assisting Department as early as possible and speak to the instructor (954-201-6904 or 954-201-6448). If the office is closed, a message should be left on the answering machine with a number where the student can be reached. Students are responsible for the material presented at every class meeting whether present or not. Lateness in excess of fifteen minutes constitutes an absence.

An excess of three (3) absences in a class will be cause for dismissal from the Program. Three (3) lates are equal to one absence and are included in the 3 days. Any student leaving before dismissal from this class will be counted as absent for the day unless the instructor gave prior permission. Any student arriving more than 15 minutes late for the class will be considered absent for the day.

The individual class instructor will withdraw any student who has exceeded the 3 days as it is deemed detrimental to the student's acquiring adequate skill and knowledge of the objectives taught in the course. Withdrawal from the course will result in dismissal from the program.

Non-Class Days: Owing to 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 a 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 an excused/ 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 excused / non-penalized absences must be presented by the student to the faculty member within ten days of the 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 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.

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## **UNITS**

### **Unit 1 Fabrication of Bleach Trays/Tooth Whitening**

#### **General Outcome:**

- 1.0 **The student shall:** Demonstrate the fabrication of bleaching/tooth whitening trays.

#### **Specific Measurable Learning Outcomes:**

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

- 1.1 Explain the purpose of tooth bleaching
- 1.2 Explain the difference between vital and non-vital tooth bleaching
- 1.3 Explain the difference between intrinsic and extrinsic stain
- 1.4 Name the chemical agents used for tooth whitening.
- 1.5 List factors that affect the success of tooth whitening.
- 1.6 Explain the causes of tooth discoloration
- 1.7 Contrast patient applied and professionally applied vital whitening
- 1.8 Explain outcomes and considerations of bleaching.
- 1.9 Demonstrate proper trimming of models for bleach tray fabrication
- 1.10 List steps in fabrication of bleach trays
- 1.11 Demonstrate fabrication of custom bleach trays
- 1.12 Explain homecare instructions to patient

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**Unit 2 Polishing Teeth and Restorations**

**General Outcome:**

**2.0 The student shall:** Polish the clinical crowns and restorations using a bristle brush and a rubber polishing cup.

**Specific Measurable Learning Outcomes:**

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

- 2.1 Identify procedures that would minimize the danger of frictional heat to the tooth surface.
- 2.2 Compare manual/motor polishing and describe when manual is the best method for the protection of tooth surfaces.
- 2.3 Contrast the use of dental floss and dental tape for polishing the tooth surfaces.
- 2.4 Demonstrate the cleaning/polishing of removable appliances worn by the dental patient.
- 2.5 List the steps for polishing dental restorations.
- \*2.6 Demonstrate the correct positioning of equipment, patient, dental light and instrumentation for polishing each quadrant of the oral cavity.
- \*2.7 Demonstrate the disclosing of a designated patient's teeth for the identification of remaining plaque/stains.
- \*2.8 Demonstrate polishing of an amalgam restoration.

### **Unit 3 Topical Fluoride Applications**

**General Outcome:**

- 3.0 The student shall:** Apply a topical fluoride treatment to the clinical crowns of the teeth.

**Specific Measurable Learning Outcomes:**

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

- 3.1 Position the dental patient correctly for the fluoride application.
- 3.2 Examine oral cavity for identified conditions that would cause a postponement of the application.
- 3.3 Determine the correct tray size and amount of material necessary to sufficiently cover the teeth without overflow.
- 3.4 Apply the fluoride tray and material in the oral cavity and manipulate material into the interproximal areas of the dentition.
- 3.5 Remove the material and instruct the patient on the post-op steps to follow to receive the full benefit of the application.
- 3.6 Record the necessary information on the patient's record.

**Unit 4 Pit and Fissure Sealants**

**General Outcome:**

- 4.0 The student shall:** Apply sealants to specified teeth.

**Specific Measurable Learning Outcomes:**

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

- 4.1 Re-establish the need for sealants in specified teeth.
- 4.2 Instrument the tooth surfaces of those receiving a dental sealant.
- 4.3 Apply acid-etch material correctly to the surfaces needing the sealant material, time the procedure and successfully evaluate the tooth for effectiveness.
- 4.4 Apply the dental sealant material to the tooth surface recognizing the manipulation methods necessary to prevent bubbles, overfill or under-filling of the tooth.
- 4.5 Evaluate the sealant for bubbles, marginal coverage, occlusion and interproximal material that would determine the success of the placement.
- 4.6 Record the necessary information on the patient's record.

**Unit 5 Placing and Removing Periodontal Dressings**

**General Outcome:**

- 5.0**                            **The student shall:** Place and remove a periodontal dressing from a specified area.

**Specific Measurable Learning Outcomes:**

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

- \*5.1            Manipulate the various periodontal dressing materials for placement over the surgical site.
- \*5.2            Place the surgical dressing over the margins of an assigned surgical site.
- \*5.3            Evaluate placement considerations such as contouring, coverage, festooning, occlusion and frenum interference.
- \*5.4            Maintain fulcrum and instrument control while placing the dressing.
- \*5.5            Remove the dressing correctly allowing for the placement of sutures under the dressing material.
- \*5.6            Provide the necessary post-operative instructions for the comfort and safety of the patient.
- \*5.7            Utilize basic skills of positioning of operator, patient and dental light for placement/removal procedures.

**Unit 6 Chairside Temporary Crowns/Bridges**

**General Outcome:**

- 6.0 The student shall:** Construct and insert temporary coverage of prepared teeth.

**Specific Measurable Learning Outcomes:**

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

- \*6.1 construct two temporary crowns on designated model preparations.
- \*6.2 Manipulate the acrylic resin to the homogeneous "doughy" stage needed for temporization of crowns.
- \*6.3 Trim resin excess material to the correct gingival shoulder of the tooth.
- \*6.4 Polish bulk of resin and shape the final temporary coverage.
- \*6.5 Cement the temporary coverage with the designated temporary cement.
- 6.6 Review the post-operative instructions given to the patient wearing the temporary coverage.

**Unit 7 Nitrous Oxide Sedation**

**General Outcome:**

- 7.0**            **The student shall:** Monitor nitrous-oxide sedation under the direct supervision of a Florida licensed dentist.

**Specific Measurable Learning Outcomes:**

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

- 7.1. Turn on O<sub>2</sub>/N<sub>2</sub>O tanks.
- 7.2. Check the dials (correct pressure).
- 7.3. Seat the patient and explain the procedure.
- 7.4. Attach new disposable nasal mask to the unit.
- 7.5. Turn O<sub>2</sub> flow valve to 6 liters. Fill reservoir bag.
- 7.6 Explain to the patient the nasal mask will be placed over their nose.
- 7.7. Adjust the mask for leaks. (Use gauze if necessary.)
- 7.8. Administer N<sub>2</sub>O (1 liter).
- 7.9. Adjust the O<sub>2</sub> (5 liters).
- 7.10. Keep rapport with the patient: ask "How are you doing?" If patient's first experience, keep hand contact.
- 7.11. Continue raising N<sub>2</sub>O/O<sub>2</sub> until the patient exhibits analgesic symptoms. (Not to Exceed 50%/50%)

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- 7.12. Raise O<sub>2</sub> flow valve to 6 liters. Lower N<sub>2</sub>O flow valve to "0".
- 7.13. Flush reservoir bag.
- 7.14. Patient continues breathing O<sub>2</sub> for 3-5 minutes.
- 7.15. Remove nasal mask.
- 7.16. Turn O<sub>2</sub> flow valve off.
- 7.17. Patient remains seated 10-20 minutes until recovered completely.
- 7.18. Turn off N<sub>2</sub>O/O<sub>2</sub> tanks.
- 7.19. Bleed the remaining N<sub>2</sub>O/O<sub>2</sub> from the tanks.
- 7.20. Empty the N<sub>2</sub>O/O<sub>2</sub> lines.

**Unit 8 Placing and Removing Gingival Retraction Cord**

**General Outcome:**

**8.0The student shall:** Place and remove gingival retraction cord that does not contain vasoactive chemicals

**Specific Measurable Learning Outcomes:**

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

- 8.1 Assemble the appropriate instrumentation and materials.
- \*8.2 Prepare the tooth and the oral cavity to receive the retraction cord
- \*8.3 Pack the gingival retraction cord into the sulcus.
- \*8.4 Maintain the retraction cord in place for the correct amount of time
- \*8.5 Remove the gingival retraction cord utilizing the designated technique.

## **Unit 9 Orthodontic Applications**

### **General Outcome:**

- 9.0**                    **The student shall:** Perform orthodontic procedures permitted by the state of Florida for dental assistants.

### **Specific Measurable Learning Outcomes:**

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

- \*9.1 Assemble the appropriate instrumentation and materials.
- \*9.2 Measure and place orthodontic archwires to bonded brackets
- \*9.3 Secure orthodontic archwires with elastic and stainless steel ligature ties.
- \*9.4 Demonstrate proper instrumentation of orthodontic armamentarium.
- \*9.5 Demonstrate proper removal of archwires and ties.