

Course Description

DES0830L | Expanded Functions Lab | 1.00 credit

This course is designed to provide students with the foundational theory prior to gaining laboratory and clinical proficiency in the expanded functions legally allowable in the state of Florida.

Course Competencies

Competency 1: The student will demonstrate knowledge of suture removal by:

1. Identifying various materials used for sutures
2. Describing the purpose and types of sutures
3. Identifying common surgical procedures and appropriate surgical sutures
4. Assembling the correct armamentarium for suture removal
5. Performing correct techniques for suture removal of one or more sutures on a selected material
6. Describing appropriate notations made in the patient chart after suture removal

Competency 2: The student will demonstrate knowledge of osteitis and procedures for treatment by:

1. Summarizing causes and conditions present to increase osteitis risk
2. Defining the term Dry Socket. 3. Listing several terms synonymous with dry socket
3. Describing the symptoms associated with dry socket
4. Distinguishing the treatment options for dry socket
5. Arranging the correct armamentarium for dry socket treatment
6. Demonstrating the correct techniques in placing and removing dressing from an alveolar socket on a typodont model

Competency 3: The student will demonstrate knowledge of taking an alginate impression and bite registration by:

1. Identifying alginate impression use and relevance in dental procedures
2. Listing the criteria for selecting proper tray size
3. Demonstrating tray size selection for patient
4. Demonstrating technique used for mixing alginate impressions
5. Constructing a bubble-free, accurate alginate impression
6. Taking an accurate bite registration on a selected student partner
7. Following recommended safety and infection control guidelines when taking, handling, and transporting impressions and bite registrations

Competency 4: The student will demonstrate knowledge of the use of rubber dam by:

1. Comparing the indication and contraindications for using rubber dam
2. Selecting the proper tooth isolation by a rubber dam for any tooth being treated
3. Identifying appropriate clamps used for anterior and posterior teeth
4. Assembling armamentarium for placement of rubber dam
5. Applying rubber dam on a typodont model
6. Removing rubber dam from a typodont model
7. Following recommended safety and infection control guidelines when placing and removing a dental dam

Competency 5: The student will demonstrate knowledge of the use of matrices by:

1. Identifying parts of retainer and their importance in use
2. Assembling appropriate matrix band and retainer for any given tooth
3. Demonstrating proper use of matrix band, wedge, and retainer on typodont model

4. Following recommended safety and infection control guidelines when placing and removing matrices

Competency 6: The student will demonstrate knowledge of the use of pit and fissure sealant by:

1. Identifying indications and contraindications for placement of pit and fissure sealant
2. Identifying the chemical compounds and application methods for self-cured and light-cured sealant material
3. Describing the critical nature of etchant material and relation to sealant retention
4. Determining the etched surface based on visual criteria
5. Assembling of armamentarium needed for placement of dental sealant
6. Applying pit and fissure sealant to typodont model
7. Identifying correct sealant application
8. Identifying defects and errors in sealant application technique
9. Following recommended safety and infection control guidelines when placing sealants

Competency 7: The student will demonstrate knowledge of the use of periodontal dressing by:

1. Identifying several uses for periodontal dressing
2. Performing placement of periodontal dressing on typodont
3. Explaining home care instructions for periodontal dressing placement
4. Demonstrating removal of periodontal dressing

Competency 8: The student will demonstrate knowledge of the use of retraction cord by:

1. Explaining the purpose of retraction cords
2. Identifying reasons why gingival retraction is beneficial in operative dentistry
3. Identifying different methods for achieving gingival retraction and types of retraction cords
4. Assembling the appropriate armamentarium for placing retraction cord
5. Placing and removal of retraction cord on typodont model

Competency 9: The student will demonstrate knowledge of the use of temporary fillings by:

1. Listing the indications and contraindications of temporary fillings
2. Identification of need for placement of temporary fillings
3. Explaining the difference between the various types of temporary filling materials and methods to clinical considerations
4. Explaining the armamentarium for placing temporary filling
5. Placing of temporary filling on a typodont

Competency 10: The student will demonstrate knowledge, comprehension, and application of temporary crowns by:

1. Properly mixing and manipulating acrylic resin to create a temporary crown
2. Polishing and fitting a temporary crown on a typodont
3. Describing reasons for placing a temporary crown
4. Describing the materials used to construct a temporary crown
5. Describing the steps to fabricating a temporary crown with acrylic resin

6. Listing important aspects to consider when making a temporary crown
7. Identifying the various ways to make temporary crowns

Competency 11: The student will demonstrate knowledge, comprehension, and application of finishing and polishing of a composite restoration by:

1. Identifying when it is appropriate for a dental assistant can to perform polishing of a composite per the remedial task delegated to dental assistant
2. Demonstrating the application of appropriate polishing materials – burnishers, slow- speed hand pieces, rubber cups, and bristle brushes

3. Discussing the polishing of a composite restoration using abrasive disks, points and/or cups using a smooth, deliberate, and intermittent brush stroke

Competency 12: The student will demonstrate knowledge, comprehension, fabrication, and application of temporary crowns by:

1. Properly mixing and manipulating acrylic resin to create a temporary crown
2. Polishing and fitting a temporary crown on a typodont
3. Describing reasons for placing a temporary crown
4. Describing the materials used to construct a temporary crown
5. Describing the steps to fabricating a temporary crown with acrylic resin
6. Listing important aspects to consider when making a temporary crown
7. Identifying the various ways to make temporary crowns

Competency 13: The student will demonstrate knowledge, comprehension, and application of the use of infection control and safety in the dental office when handling dental materials by:

1. Identifying the types of personal protective equipment used in a dental operatory and laboratory setting
2. Identifying methods used to prevent cross-contamination during the handling and distribution of dental materials and supplies
3. Listing office and laboratory housekeeping practices that contribute to infection control and personal and patient safety
4. Describing effective ways to manage contamination caused by aerosols and splatter during patient treatment
5. Describing ways to prevent injuries when using lathes, model trimmers, a vacuum former, and flammable materials
6. Identifying locations of the eyewash stations/ shower in the lab room
7. Identifying recommended sterilization/disinfection methods for dental lab items (impression trays, bowls, burs, polishing wheels, stones)

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning