

## Master Syllabus

### EFD 1202 - Expanded Functions for Dental Auxiliaries I

**Division:** Health Sciences

**Department:** Dental Health Sciences

**Credit Hour Total:** 6.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 4.0

**Prerequisite(s):** EFD 1102

**Date Revised:** October 2013

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#### Course Description:

Lecture and clinical course designed to teach more extensively the concepts of dental materials and their use in restorative techniques. The principles of the manipulation and placement of dental materials used in delegated intra-oral functions for the expanded function dental auxiliary in Ohio are taught. Three classroom, four lab hours per week plus ten hours of co-op experience per week in the dental office.

#### General Education Outcomes:

- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency
- Oral Communication Competency

#### Course Outcomes:

##### Ergonomics, Operator and Advanced Assisting Skills

Describe the appropriate operator positions, instrument grasps, finger rests and instrument adaptation and activation necessary to provide maximum control and efficiency, while minimizing strain and fatigue during restorative procedures.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Occlusion

Discuss the responsibility and limitations of the EFDA in restoring and maintaining favorable occlusal relationship between maxillary and mandibular teeth, and identify the procedures for evaluation and correction of occlusion for a new restoration.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Amalgam Restorations Class I, II, III, V

Describe the characteristics and clinical significance of the different amalgam alloys based upon composition, describe the proper assembly, placement and removal of the matrix retainer, band and wedges, and define the proper procedure and application of all G. V. Black cavity classifications for a properly placed amalgam restoration.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Esthetic Resin Restorative Materials

Describe the types of esthetic restorative materials, listing the composition, uses and properties of each composite or Glass Ionomer material, and discuss the basic concepts of enamel-dentin adhesion followed by detailed descriptions of the factors that affect bonding to tooth structure.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Amalgam Polishing

Discuss the rationale for finishing and polishing amalgam restorations, and the concepts of special considerations, during finishing and polishing, armamentarium, and the sequence for recontouring, finishing and polishing amalgam restorations.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Dental Bases, Liners and Intracoronal Temporaries

Identify and discuss the causes of pulpitis, discuss the role of bases and liners in pulpal protection and recovery, and the biological considerations in the selection, indication and use of bases and liners, including: microleakage, thermal effects, toxicity and pulpal response.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Isolation

Discuss the correct armamentarium and the procedure for placement and removal of various intraoral isolation methods.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Infection Control

Define universal precautions and emphasize their application in all aspects of a dental practice.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

##### Ethical and Legal Responsibility for the EFDA in Ohio

Identify basic and advanced remediable intra-oral dental tasks that may be assigned to an EFDA in Ohio, and identify the specific sections of the Ohio Revised Code that govern the practice of the EFDA in Ohio.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or higher achieved

### **Applied Terminology and Tooth Morphology**

Explain and implement the principles of tooth morphology, histology of tooth tissues, caries classification and aspects of restorative procedures that affect the periodontium.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or higher achieved

### **Polymerization and Color Theory**

Compare the influence of different polymerization modes for various resin materials, common problems, and clinical procedures, and discuss the scientific basis of selecting shades for esthetic restorations.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or higher achieved

### **Esthetic Resin Restorations Class I, II, III, V**

Discuss the specific rationales and techniques for use of esthetic resin restorations on anterior and posterior teeth.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or higher achieved

### **Cooperative Work Experience**

Demonstrate practical application of the dental skills and principles described in an approved dental office/clinical site under the direct supervision of a dentist, and in accordance with the affiliation agreement between the affiliate and Sinclair Community College.

**Assessment Method:** Behavioral observations  
**Performance Criteria:** 75% or above

### **Outline:**

Applied Terminology and Tooth Morphology  
Ergonomics, Operator and Advanced Assisting Skills  
Isolation  
Infection Control  
Ethical and Legal Responsibility for the EFDA in Ohio  
Dental Bases, Liners and Intracoronal Temporaries  
Occlusion  
Amalgam Restorations Class I, II, III, V  
Amalgam Polishing  
Esthetic Restorative Materials and Restorations Class I, II, III, V