

## Master Syllabus

### DEH 2507 - Lab for Dental Materials

**Division:** Health Sciences

**Department:** Dental Health Sciences

**Credit Hour Total:** 0.0

**Other Prerequisite(s):** Restricted to Majors

**Date Revised:** October 2013

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### Course Description:

Laboratory and clinical training in Dental Materials. Laboratory sessions give the student skill development for correctly using dental materials with an emphasis on safety and infection control.

### General Education Outcomes:

- Oral Communication Competency
- Critical Thinking/Problem Solving Competency

### Course Outcomes:

#### Impression and Gypsum Materials

Demonstrate the proper mixing of impression materials, apply the clinical technique for the appropriate mixing and handling of alginate impressions on patients, use gypsum to properly pour an acceptable study model and correctly trim the model on a model trimmer.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 80% or higher achieved

#### Moisture Control and Isolation

Demonstrate isolation techniques used to decrease moisture during a dental procedure, including cotton roll isolation and rubber dam application and removal.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 80% or higher achieved

#### Direct Restorations, Margination and Debonding

Place an amalgam and a composite restoration on a typodont, and perform margination, amalgam finishing and polishing, and debonding procedures in a laboratory setting.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 80% or higher achieved

#### Uses of Dental Cements and Adhesive Materials

Mix and prepare dental cements for cementation, as a base, liner, or temporary direct restoration.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 80% or higher achieved

#### Infection Control

Demonstrate effective infection control for handling impressions, dental appliances and dental procedures that occur in the operatory and are transferred between the dental operatory and the dental lab.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 80% or higher achieved

#### Dental Sealants

Demonstrate the steps in the successful application of dental sealants.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 80% or higher achieved

#### Tooth Whitening and Bleach Tray

Perform the steps in the construction of a bleach tray and identify the essential elements of home care instruction for the patient using a professionally supervised, patient applied technique.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 80% or higher achieved

### Outline:

Taking alginate impressions and mixing elastomeric impression materials  
Mixing gypsum and fabrication and trimming of study models  
Mixing dental cements  
Moisture control using cotton rolls and application and removal of rubber dam  
Dental sealant application  
Placement of Amalgam and composite material, tofflemire band application  
Margination and debonding techniques  
Tooth whitening procedures and fabrication of a bleach tray

