

**Course Outcomes Guide  
Fall 2015**

**Course/Program Title: DEN 107 Dental materials      Date: Fall 2015**

**Course/Program Team: Rebecca Leonard**

**Expected Learning Outcomes:**

- 1. Categorize the variety of materials utilized in clinical and laboratory settings.**
- 2. Identify the dental materials that the dental assistant is allowed to prepare.**
- 3. Maintain asepsis protocol during procedures utilizing various forms of dental materials**
- 4. Identify dental materials in radiographic surveys.**
- 5. Explain the differences and importance of maintaining up-to-date information about dental materials.**
- 6. Describe the methods and procedures of working with dental materials.**
- 7. Describe safety measures employed with dental materials.**
- 8. Demonstrate competency in dental charting**

**Assessment:**

**Course completion: Number passing at 75% or greater**

**Course outcomes:**

**CO#1    ILAs, exams, group projects    identify the various materials in a clinical setting**  
**CO#2    ILAs, exams, group projects, skill evaluations laws/procedures for preparation**  
**CO#3    ILAs, exams, and group projects    infection control protocol for dental materials**  
**CO#4    interpretation of radiographs    identifying dental materials on an x-ray**  
**CO#5    ILAs, exams, group projects, final Q16 and 17    expiration dates, MSDS sheets**  
**CO#6    ILAS, exam questions 3,5,8,12,13    amalgam procedures/ composite procedures**  
**CO#7    projects, final exam questions 51 & 79    Emergency spill kits/ protocol**  
**CO#8    ILAs, exam questions 80-85    Demonstrating charting skills and anatomy**

**Validation:**

**Course completion**

**Completion of course with an average grade of 75% or higher**

**Course outcome 1** ILAs, exams, group projects categorizing materials/ how to mix cements/ how to store dental materials

**Course outcome 2** ILAs, exams, group projects, skill evals What materials is the dental assistant allowed to prepare for the dentist, which materials are the dental assistant allowed to place in the patients mouth. State laws.

**Course outcome 3** ILAs, exams, and projects making sure the students understand asepsis and infection control associated with the preparation of dental materials.

**Course outcome 4** Interpretation of radiographs Assessing if students can distinguish between tooth structure and a dental material when viewing a radiograph.

**Course outcome 5** ILAs, exam, projects final questions 16 &17 assessing if the students understand the importance of maintaining products that are within their shelf life and not expired. How to store/ prepare and maintain dental materials

**Course outcome 6** ILAS, exams questions 3,5,8,12,13 Student repetitions of dental procedures and assisting in preparing dental materials for those procedures.

**Course outcome 7** Final exam questions 51 & 79 Explain how to clean up mercury from an amalgam procedure/ stone from pouring up models etc...

**Course outcome 8** ILAs, exam questions 80-85 have students demonstrate their ability to view a dental material in a mouth and adequately chart on a patient chart that material.

### **Results:**

Course completion:

100% (18/18 students) completed the course with a grade of 75% or higher

0% of students (0/18) received a grade less than 75%.

**Course outcomes (common ILAs, exams and final exam questions): N= 18**

**Course outcome #1** 92.5% received a 75% or greater on exams  
90% received a 75% or greater on ILA assignments

**Course outcome #2** 90% received a 75% or greater on exams  
100% received a 75% or greater on ILA assignments

**Course outcome #3** 90% received a 75% or greater on exams  
80% received a 75% or greater on ILA assignments

**Course outcome #4** 100% of students could identify materials on x-rays

**Course outcome #5** 90% received a 75% or greater on exams, 90% on ILA assignments

**Course outcome #6** 90 % received a 75% or greater on exams questions, 100% on ILA

**Course outcome #7** 100% received a 75% or greater on final questions

**Course outcome #8** 90% received a 75% or greater on final questions

**Follow-up**

**I will encourage my students to utilize the learning and testing center for exams and extra work. This will free up approximately 9 hours of contact time in class that we can use to do in-class learning activities. I will encourage students to come in alternative times during lab, to allow myself time to work with each student sufficiently.**