Course/Program Title:  DEN 107 Dental materials       Date:  Fall 2014

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 allows 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  98.5% received a 75% or greater on exams
100% received a 75% or greater on ILA assignments
Course outcome #2  100% 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
100% 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 continue to incorporate more building exercises and homework activities to enhance the student’s learning experience. Extra steps will be taken to prepare students for their DANB CDA, ICE and GC exams.