

Washtenaw Community College Comprehensive Report

DEN 112 Dental Materials Effective Term: Winter 2015

Course Cover

Division: Math, Science and Health

Department: Allied Health

Discipline: Dental Assisting

Course Number: 112

Org Number: 15100

Full Course Title: Dental Materials

Transcript Title: Dental Materials

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: Three Year Review / Assessment Report

Change Information:

Outcomes/Assessment

Objectives/Evaluation

Rationale: Master syllabus review following course assessment

Proposed Start Semester: Fall 2014

Course Description: In this course, dental assisting students gain theoretical knowledge of the uses and properties (chemical and physical) of the most commonly used dental materials. Students will gain laboratory and clinical experience in the manipulation, practical application and safe use of common dental materials and equipment in accordance with OSHA and CDC guidelines.

Course Credit Hours

Variable hours: Yes

Credits: 0 – 3

Lecture Hours: Instructor: 30 Student: 30

Lab: Instructor: 45 Student: 45

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 0 to 75 Student: 0 to 75

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: YES (separate sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

Prerequisite

Admission to Dental Assisting program

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Identify concepts and principles related to the properties and uses of common dental materials.

Assessment 1

Assessment Tool: Final exam

Assessment Date: Winter 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: all

Number students to be assessed: all

How the assessment will be scored: answer key

Standard of success to be used for this assessment: 80% or more of the students will correctly answer each item. Items with scores lower than 80% will be targeted for review.

Who will score and analyze the data: Faculty assigned to teach the course will analyze the data.

2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.

Assessment 1

Assessment Tool: Laboratory evaluation

Assessment Date: Winter 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: all

Number students to be assessed: all

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 90% or more of students will score 84% or higher on their first attempt.

Who will score and analyze the data: Departmental faculty will score and analyze the data.

Course Objectives

1. Identify the basic chemical and physical properties of dental materials including but not limited to gypsum, restorative materials, dental cements, impression material, acrylics and/or thermoplastics, and waxes.

Matched Outcomes

1. Identify concepts and principles related to the properties and uses of common dental materials.
2. Identify various indirect and direct restorative materials and their functions.

Matched Outcomes

1. Identify concepts and principles related to the properties and uses of common dental materials.
3. Identify the various categories of impression materials and when each is used.

Matched Outcomes

1. Identify concepts and principles related to the properties and uses of common dental materials.
4. Identify variables that will affect the desired outcomes when mixing dental materials.

Matched Outcomes

1. Identify concepts and principles related to the properties and uses of common dental materials.
5. Identify how dental models are used and fabricated.

Matched Outcomes

1. Identify concepts and principles related to the properties and uses of common dental materials.
6. Identify how custom trays are used and fabricated.

Matched Outcomes

1. Identify concepts and principles related to the properties and uses of common

- dental materials.
7. Identify proper handling of hazardous substances.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 8. Demonstrate the manipulation of dental cements given a scenario.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 9. Demonstrate proper mixing for a variety of different impression materials.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 10. Obtain diagnostic impressions on a classmate.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 11. Produce diagnostic models.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 12. Produce clinically acceptable custom made trays.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 13. Produce a mouth guard/tooth whitening tray.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 14. Demonstrate the use of polishing and finishing devices and materials on a variety of appliances.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 15. Identify the rules of safety as they relate to the dental laboratory.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 16. Identify and operate basic laboratory equipment.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.
 17. Implement OSHA and CDC guidelines in the dental laboratory setting.
Matched Outcomes
 2. Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.

New Resources for Course

Course Textbooks/Resources

Textbooks

Bird and Robinson. *Modern Dental Assisting*, ed. Mosby, 2014

Hatrick. *Dental Materials*, ed. Saunders, 2011

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Kristina Sprague</i>	<i>Faculty Preparer</i>	<i>Jun 23, 2014</i>
Department Chair/Area Director: <i>Connie Foster</i>	<i>Recommend Approval</i>	<i>Jul 17, 2014</i>
Dean: <i>Kristin Brandemuehl</i>	<i>Recommend Approval</i>	<i>Jul 18, 2014</i>
Vice President for Instruction: <i>Bill Abernethy</i>	<i>Approve</i>	<i>Sep 16, 2014</i>