

South Central College

## DA 1815 Dental Materials

### Common Course Outline

#### Course Information

<b>Description</b>	This course is designed to give students fundamental knowledge in dental materials, their purpose, composition, manipulation, properties, purposes, and storage as utilized in the dental practice and laboratory setting. The course includes both didactic and laboratory instruction for various material types including gypsum, impression materials, waxes, cements, and restorative materials. Safety in handling materials will be emphasized in laboratory. (Prerequisites: DA 1811, DA 1812)
<b>Total Credits</b>	3
<b>Total Hours</b>	64

#### Types of Instruction

Instruction Type	Credits/Hours
Lecture	2/32
Laboratory	1/32

#### Pre/Corequisites

Prerequisite DA 1811, DA 1812

#### Institutional Core Competencies

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

#### Course Competencies

1. Explain the oral environment and patient considerations
  - 1.



Discuss hazardous waste protocol  
Incorporate Bloodborne Pathogen standard in labs  
Implement hazardous waste protocol  
Utilize Bloodborne Pathogen exposure prevention methods

**12. Define dental material terminology**

**Learning Objectives**

Define specific dental material terminology  
Demonstrate correct terminology usage

**13. Identify dental material historical developments and contributors**

**Learning Objectives**

Review historical development of dental materials  
Identify individuals and their contributions to dental material development  
Explain dental material importance, standards, agencies, and requirements  
Explain consumer product information and the American Dental Association (ADA) seal requirements

**14. Select appropriate dental material armamentarium, equipment, and supplies**

**Learning Objectives**

Identify essential equipment and supplies needed for dental material procedures  
Explain appropriate equipment utilization, function, and safety features  
Demonstrate correct equipment utilization and storage

**15. Demonstrate laboratory competencies**

**Learning Objectives**

Demonstrate accurate dental materials usage  
Complete pouring and trimming dental gypsum product procedures and competencies  
Complete required dental impressions, bite registrations, and custom tray procedures and competencies  
Demonstrate correct dental cement manipulation, application, and competencies  
Demonstrate correct bonding principles and clinical applications of dental materials  
Demonstrate manipulation and placement of amalgam and esthetic dental restorative materials

**16. Demonstrate dental material standard operating procedures and processes**

**Learning Objectives**

Demonstrate correct application of dental materials  
Demonstrate standard operating procedures utilizing dental materials  
Complete laboratory and clinical dental material procedures