

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
DNA 110 - DENTAL MATERIALS (3 CR.)**

Course Description

Studies the materials utilized in the laboratory aspect of dentistry as support in treatment. Emphasis is placed on the characteristics, manipulation, economical control, storage, and delivery of materials. Lecture: 2 hours per week. Laboratory: 3 hours per week. Total: 5 hours per week.

General Course Purpose

This course is designed to acquaint the student with the physical and chemical structures of materials used in dental practice. Instruction and practice in the manipulation of materials and laboratory procedures are emphasized.

Course Prerequisites/Co-Requisites

Prerequisites: ENG 111, NAS 159, and SDV 101

Corequisites: DNA 100, DNA 108, DNA 113, DNA 134 and PSY 200

Course Objectives

Upon completing the course, the student will be able to:

- Describe factors for making demands on dental materials
- Describe the major properties for dental materials
- Demonstrate the ability to manipulate dental materials
- Demonstrate the ability to perform laboratory procedures
- Describe the precautions for handling hazardous materials
- Demonstrate the ability to practice proper methods of infection control when manipulating dental materials
- Demonstrate the ability to practice proper methods of infection control when performing laboratory procedures

Major Topics To Be Included

- Physical and Biological Considerations for Dental Materials
- Structure and Properties of Dental Materials
- Gypsum Products
- Dental Cements
- Restorative Materials
- Bonding Agents
- Bleaching Agents
- Impression Materials
- Materials Used in Prosthetic Dentistry
- Dental Waxes
- Handling Hazardous Materials