

HDA 112 - DENTAL MATERIALS

Course Description

Students learn the preparation, manipulation, and use of dental materials commonly found in the dental office. There will be discussion regarding the equipment needed, mixing techniques, and proper usage of waxes, restorative materials, impression materials, gypsum products, cements, metals and therapeutic materials. Preparation of each material will be demonstrated. Group 2 course.

Credit Hours

2

Contact Hours

2

Lecture Hours

2

Corequisites

HDA 113

Recommended Prerequisites or Skills Competencies

HAH 120, HDA 120

Course Learning Outcomes

Knowledge:

- Define the physical properties of dental materials.
- Explain the factors necessary in choosing a material used in the oral cavity.
- Discuss etching systems, and enamel and dentin bonding systems.

Application:

- Evaluate the materials commonly used in dentistry for both restorative and laboratory purposes.

Integration:

- Compare the various types of gypsum products, their uses, properties, and manipulation techniques.
- Compare the therapeutic materials used in dentistry, their uses, properties, and proper manipulation.
- Compare the types of impression materials, their uses, properties, and manipulation techniques.
- Compare the types of restorative materials, their uses, properties, and manipulation techniques including direct esthetic materials and amalgam.
- Compare the types of cements, their uses, properties, and manipulation techniques.
- Compare the types of metals, including gold, their uses, properties, and manipulation techniques.
- Compare the types of waxes, their uses, properties and manipulation techniques.
- Compare the types of synthetic resins, their uses, properties, and manipulation techniques.

Human Dimension:

- Interact with others regarding the importance of providing treatment plan options.

Caring - Civic Learning:

- Engage with patients on safety precautions and care of final treatment provided.

Learning How to Learn:

- Identify sources of information on dental materials that will assist the student with being successful on board exams.