

Dental Laboratory Technology

AAS: Dental Laboratory Technology

Competencies

General Education Competencies: Competencies will be met at the level appropriate to the credential.

- I. Communicate Effectively
 1. Read and listen with comprehension.
 2. Speak and write clearly using standard English.
 3. Interact cooperatively with others using both verbal and non-verbal means.
 4. Demonstrate information processing through basic computer skills.
- II. Think Critically
 1. Make connections in learning across the disciplines and draw logical conclusions.
 2. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
 3. Use mathematics to organize, analyze, and synthesize data to solve a problem.
- III. Learn Independently
 1. Use appropriate search strategies and resources to find, evaluate, and use information.
 2. Make choices based upon awareness of ethics and differing perspectives/ideas.
 3. Apply learning in academic, personal, and public situations.
 4. Think creatively to develop new ideas, processes, or products.
- IV. Examine Relationships in Diverse and Complex Environments
 1. Recognize the relationship of the individual to human heritage and culture.
 2. Demonstrate an awareness of the relationship of the individual to the biological and physical environment.
 3. Develop an awareness of self as an individual member of a multicultural global community.

Technical Competencies/Learning Outcomes:

- I. Apply the principles of occlusion, anatomy, and the physiology of mandibular movements to the fabrication of various fixed and removable prostheses.
 1. Design and fabricate complete dentures.
 2. Design and fabricate removable partial dentures.
 3. Design and fabricate full metal restorations.
 4. Design and fabricate ceramic restorations.
 5. Design and fabricate orthodontic appliances.
 6. Manipulate and describe the properties of dental materials.
- II. Manage laboratory facilities.
 1. Communicate and collaborate with members of the dental health team.
 2. Practice chemical and infection control safety precautions.
 3. Demonstrate proper use and care of dental laboratory equipment.
 4. Discuss the need to update professional skills and knowledge.
 5. Practice dental technology within the legal and ethical boundaries of the profession and local statutes.