

**Orthotics and Prosthetics Technology A.S. Degree
Technical Standards and Essential Functions**

Technical Standards: *The minimum cognitive, behavioral and physical abilities required for satisfactory participation in the program. Successful candidates must possess these abilities in order to be admitted to the program.*

Cognitive

- The prospective student must possess a satisfactory ability to comprehend, memorize, analyze and synthesize basic science and technical material in a timely manner.
- The prospective student must be familiar with basic electronic environments, i.e. email, word processing, presentation programs.
- The student must have basic understanding of arithmetic, fractional math and use of ruled instruments for measuring.

Affective

- The prospective student must be honest, respectful, polite, empathetic, ethical and culturally sensitive.
- The prospective student must possess the emotional stability to function successfully in stressful situations in an ever changing environment.
- The prospective student must possess the ability to work with others in a group situation.
- The prospective student must possess satisfactory oral, written and listening skills to effectively communicate with patient models, fellow students, the faculty and staff.

Psychomotor

- The prospective student must possess the visual acuity, tactile sensation, motor control, and muscular strength to perceive the signs and symptoms of disease and injury, safely transfer and move patients in a clinical setting, safely operate power tools and equipment, maneuver bulky positive-models and materials, and clean-up after oneself.

Essential Functions: *The minimum competencies required for satisfactory completion of the program. Successful students must demonstrate these competencies in order to graduate.*

Cognitive

- The student must possess a satisfactory understanding of applied sciences, business, ethics, and orthotics and prosthetics in order to:
 - Perform a comprehensive patient assessment for custom fit devices, custom molded pedorthic devices. The student must demonstrate the proper way to record the information appropriately in the medical record according to current industry guidelines.
 - Analyze the evidence from the patient assessment and develop a comprehensive treatment plan.

- Implementation of treatment plans including: material and component selection, device fabrication, and clinician/patient device education.
- Develop and direct a follow-up treatment plan including; adjustment strategies, schedules, device maintenance and patient education.
- Contribute to the economic viability of an orthotic and prosthetic clinical practice or central fabrication environment.
- Promote the profession and actively participate in continuing education.

Affective

- The student must demonstrate satisfactory professional conduct, including: compassion, sympathy, empathy, altruism, integrity, responsibility and tolerance necessary to provide appropriate patient centered care of custom fit orthotic and custom molded pedorthic devices.
- The student must demonstrate satisfactory professional communication skills, including: written, verbal and non-verbal communication, and active listening techniques necessary to provide appropriate patient centered care, as indicated above. The student must also demonstrate these skills when working with a clinician or other technician.

Psychomotor

- The student must demonstrate satisfactory visual acuity, motor control and muscular strength to safely and effectively perform the following tasks:
 - Assessing a patient, including: patient handling, range of motion, manual muscle, sensation, proprioception, and gait testing.
 - Implement a treatment plan, including: capture patient images using negative impression techniques with plaster and synthetic casting materials and CAD models; vacuum form thermoplastics, laminate thermosets, and contour metals; assemble components; shape and smooth trim lines; fit and adjust orthotic prosthetic devices.
 - Abide by lab safety guidelines, including: proper machine use and maintenance, proper use of personal protection equipment, proper chemical use and storage, proper oven use and safety, proper MSDS interpretation and organization, proper use of various hand tools, proper use of orthotic and prosthetic specific components and tools.
 - Implement follow-up care, including: re-assess patient fit, adjust, repair or maintain orthotic and prosthetic devices.

If a student cannot demonstrate the abilities identified above, it is the responsibility of the student to request an appropriate accommodation with Disability Resources. Determination of a reasonable accommodation will be made on an individual basis and the accommodation cannot fundamentally alter the nature of the program offered, impose an undue hardship, or jeopardize safety.

HEC Disability Resources
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 Disability Resources Manager
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