

Technical Standards: Mechatronics Engineering Technology

All Students in this program are expected to meet certain essential functions/technical standards which are essential for successful completion of all phases of the program and which reflect industry requirements and standards. To verify the students' ability to perform these essential functions, students may be required to demonstrate the following technical standards:

Standard	Definition of Standard	Example(s) of Technical Standard
CRITICAL THINKING SKILLS	<ul style="list-style-type: none"> Ability to measure, calculate, reason, analyze, synthesize, and integrate information and solve problems 	<ul style="list-style-type: none"> Demonstrate the ability to understand engineering and technical drawings, and interpret the information to solve problems.
MOTOR SKILLS	<ul style="list-style-type: none"> Sufficient motor functions necessary to operate machining and manufacturing equipment in a safe manner 	<ul style="list-style-type: none"> Manual dexterity sufficient to gain access and operate controls on a variety of electrical/mechanical equipment. Maintain proper safety precautions while working on electrical and mechanical equipment with potentially lethal voltages and mechanical hazards.
TECHNOLOGY SKILLS	<ul style="list-style-type: none"> Be able to effectively use a computer through the use of a manual keyboard, mouse, and viewing a monitor/screen to accomplish tasks requiring email and web browsers 	<ul style="list-style-type: none"> Utilize email and web-based systems to complete and submit assignments and communicate with classmates, instructors, and college staff. Use technology to access course content and complete assignments.
AUDITORY SKILLS	<ul style="list-style-type: none"> Being capable of distinguishing various sounds, tones, and pitches emitted by machining and manufacturing equipment 	<ul style="list-style-type: none"> Ability to respond to alarm indicators during the operation of some electrical/electronic equipment. Ability to audibly discern unusual equipment noises that can indicate potential safety hazards.
VISION SKILLS	<ul style="list-style-type: none"> Must possess good peripheral vision and have depth perception 	<ul style="list-style-type: none"> Ability to respond to visual alarm indicators during the operation of some electrical/electronic equipment.
COMMUNICATION SKILLS	<ul style="list-style-type: none"> Being able to effectively communicate with others in English, and to accurately gather, disseminate, and clarify specific information 	<ul style="list-style-type: none"> Effectively communicate orally and using written documents containing technical information.
INTERPERSONAL SKILLS	<ul style="list-style-type: none"> Must be able to effectively communicate and work within a team 	<ul style="list-style-type: none"> Must work within a team setting to identify solutions to a problem.
BEHAVIORAL SKILLS	<ul style="list-style-type: none"> Behave in a professional, safe, and appropriate manner in both dress and action as required by the program Ability to maintain a work space that is appropriate and actively moving toward quality project completion Does not take risks to endanger equipment or personnel Respectful to teachers and other learners Follow all rules and regulations 	<ul style="list-style-type: none"> Behaving safely and not roughhousing or playing during labs. Being respectful of others and equipment. Being attentive to task at hand for some dangerous situations. Effectively utilizing the time in class to work on assigned tasks. Not being easily distracted or distracting others. Respecting instructors, students, and equipment.
WORK SKILLS	<ul style="list-style-type: none"> Ability to participate in a work-based learning experience 	<ul style="list-style-type: none"> Students will need to travel to a worksite. Students may be required to pass a drug screening and/or background check. Students may be required to obtain certain immunizations.