

Students enrolled in the Fire Science and Fire Medic Programs should be able to meet the established technical standards identified below. The technical standards for the Fire Science and Fire Medic Programs are representative of those found in the firefighting profession.

Ability	Standard	Examples (not inclusive)
Physical	Student must have sufficient:  Gross and fine motor skills to perform administrative, clinical and laboratory skills in a timely, safe and effective manner  Endurance, strength, mobility, balance, flexibility and coordination to perform client care activities and emergency procedures while wearing approximately 75 pounds of Personal Protective Equipment (PPE) and self-contained breathing apparatus (SCBA).	GROSS MOTOR SKILLS:  Move within restricted spaces Maintain balance in multiple positions Reach above shoulders Reach below waist Reach out front FINE MOTOR SKILLS: Pick up objects with hands Grasp small objects with hands Grasp small objects with hands (e.g., IV tubing, pencil) Write with pen or pencil Key/type (e.g., use a computer) Pinch/pick or otherwise work with fingers (e.g., manipulate a syringe) Twist (e.g., turn objects/knobs using hands) Squeeze with finger (e.g., eye dropper) Good eye hand & foot coordination Simultaneous hand wrist & finger movement PHYSICAL ENDURANCE: Stand Sustain repetitive movements (e.g., CPR) Maintain physical tolerance (e.g., work on your feet a minimum of 8 hours) Respond to calls for service over extended periods of time without meal or sleep breaks Able to adapt to a variety of weather situations PHYSICAL STRENGTH: Push and pull various weight during shift Lift, carry, support, and balance various weight during shift/clinical



Ability	Standard	Examples (not inclusive)
		<ul> <li>Carry equipment/supplies</li> <li>Use upper body strength (e.g., perform CPR, operate patient transfer devices, perform forcible entry through doors, wall, floors, ceilings and roofs)</li> <li>Squeeze with hands (e.g., operate fire extinguisher)</li> <li>Carry, drag, assist other firefighters or trapped civilians</li> <li>Advance charged hose lines while walking upright, crouching or crawling inside buildings involved in fire.</li> <li>MOBILITY:         <ul> <li>Walk</li> </ul> </li> </ul>
		<ul> <li>Twist</li> <li>Bend</li> <li>Stoop/squat</li> <li>Kneeling</li> <li>Crouching</li> <li>Crawling</li> <li>Move quickly (e.g., response to an emergency)</li> <li>Climbing &amp; balancing (climb stairs, extension ladders up to 35 feet, or aerial ladders up to 100 feet)</li> </ul>
Sensory	Student must have sufficient:	<ul> <li>HEARING:         <ul> <li>Hear &amp; discriminate at speech normal conversation sound levels (e.g., person-to-person report)</li> <li>Hear faint voices</li> <li>Hear faint body sounds (e.g., blood pressure sounds, assess placement of tubes)</li> <li>Hear in situations when not able to see lips (e.g., when masks are used)</li> <li>Hear auditory alarms (e.g., monitors, emergency alarms)</li> <li>Hear &amp; discriminate speech in situations with extraneous noise (e.g., back of ambulance, emergency scene)</li> <li>Hear &amp; discriminate sounds in situations with extraneous noise (e.g., lung sounds, heart tones, blood pressure)</li> </ul> </li> <li>VISUAL:</li> </ul>



Ability	Standard	Examples (not inclusive)
		<ul> <li>Use depth perception</li> <li>Use peripheral vision</li> <li>Distinguish color and color intensity (e.g., color codes on supplies, flushed skin/paleness)</li> <li>See in a darkened room</li> </ul>
		<ul> <li>SMELL:         <ul> <li>Detect odors (e.g., foul smelling drainage, alcohol breath, smoke, gases or noxious smells)</li> </ul> </li> </ul>
		<ul> <li>Feel vibrations (e.g., palpate pulses)</li> <li>Detect hot and cold temperature (e.g., skin, solutions)</li> <li>Feel differences in surface characteristics (e.g., skin turgor, rashes)</li> <li>Feel differences in sizes, shapes (e.g., palpate vein, identify body landmarks)</li> <li>Detect environmental temperature</li> </ul>
Communication	Student must have effective:	<ul> <li>COMMUNICATION SKILLS:</li> <li>Effectively communicate with colleagues, clients, families, lay public, medical professionals</li> <li>Teach (e.g., colleagues, client/family about health care)</li> <li>Influence people</li> <li>Direct/manage/delegate activities of others</li> <li>Speak English</li> <li>Write English legibly</li> <li>Read English</li> <li>Listen attentively</li> <li>Comprehend spoken/written word</li> <li>Collaborate with others (e.g., health care workers, citizens, elected officials, supervisors, peers)</li> <li>Manage information</li> <li>Exhibit &amp; comprehend nonverbal cues</li> </ul>



Ability	Standard	Examples (not inclusive)
		Communicate verbally with diverse cultures and age groups
		WRITTEN COMMUNICATION:
		<ul> <li>Read and understand written documents (e.g., protocols, patient care records, medications)</li> </ul>
		Read digital displays
		<ul> <li>Accurately read a Drug Reference Manual</li> </ul>
		Accurately read a road map
		<ul> <li>Review written reports for accuracy</li> </ul>
		Read professional journals
Safety	Apply knowledge, skills and experience to provide a safe work environment     Environmental Awareness	SAFETY:  Work in an environment with potentially infectious materials Demonstrate adherence to safety guidelines and regulations Recognize potentially hazardous conditions and take appropriate actions Maintain immunization and health care requirements Utilize personal protective equipment (gloves, masks, eyewear, PPE & SCBA) Operate equipment, adhering to safety standards Identify and resolve unsafe situations Be familiar with and follow emergency procedures  ENVIRONMENT: Work in cold, with or without temperature changes Work in extreme heat, with or without temperature changes Work in wet and/or humid conditions Work in hazards (e.g. vehicle extrication, infectious disease, inclement weather, etc.) Work in atmospheric conditions Tolerate exposure to allergens (e.g., latex gloves, chemical substances)
		<ul><li>Tolerate strong soaps</li><li>Tolerate strong odors</li></ul>



Ability	Standard	Examples (not inclusive)
		Tolerate noisy environment
Critical Thinking	Student must have sufficient critical thinking and problem solving skills to:  Calculate, reason, analyze and synthesize data in a timely manner  Problem solve and make decisions in a timely manner  Apply knowledge, skills and experience to determine best/safe practice	MATH:  Tell time  Measure time (e.g., count duration of contractions, CPR, medication administration, etc.)  Count rates (e.g., drips/minute, pulse)  Comprehend and interpret graphic trends  Calibrate equipment  Convert numbers to and from metric, apothecaries', and American systems (e.g., dosages)  Add, subtract, multiply, and/or divide whole numbers  Compute fractions and decimals (e.g., medication dosages)  Perform quickly and precisely mathematical calculations using ratio and proportion  Read and interpret measurement marks (e.g., measurement tapes and scales)  Document numbers in records (e.g., charts, computerized data bases)  CRITICAL THINKING:  Plan/control activities for others  Synthesize knowledge and skills  Comprehends & follows instructions  Ability to draw valid conclusions expediently relevant to patient's condition, often using limited information  Identify cause-effect relationships  Sequence information  Make decisions independently
Professionalism	Student must demonstrate the ability to:  • Establish effective relationships	<ul> <li>Adapt decisions based on new information</li> <li>Professionalism:         <ul> <li>Maintain confidentiality</li> </ul> </li> <li>Demonstrate appropriate impulse control and professional level of maturity</li> </ul>



Ability Standard Framelas (not inclusive)		
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	Display cross-cultural competency,	Recognize appropriate boundaries in relationships with patients and
	integrity, moral reasoning, ethical	colleagues
	behaviors and concern for others	Demonstrate ability to work as a team member
	Show respect for diverse populations	Demonstrate ability to cope with stressful situations  Adhere to attendence draws and paramed by since protections
	Work cooperatively with all professional	Adhere to attendance, dress code, and personal hygiene protocol
	teams	Display integrity, honesty, respect, reliability and accountability
		<ul> <li>Accept and utilize constructive feedback to enhance personal and professional growth</li> </ul>
		Work independently and in team
		Respond to challenging situations while maintaining composure and
		professionalism
		EMOTIONAL STABILITY:
		Independent & confident
		Assume the role of team leader
		Accept feedback appropriately
		Accept responsibility of own actions
		Ability to use good judgment & remain calm in high-stress situations
		Establish professional relationships
		Provide client and families with emotional support
		Adapt to changing environment/stress
		<ul> <li>Deal with the unexpected (e.g., client condition, crisis)</li> </ul>
		Focus attention on task
		Cope with own emotions
		Perform multiple responsibilities concurrently
		<ul> <li>Cope with strong emotions in others (e.g., grief, delirium)</li> </ul>
		INTERPERSONAL SKILLS:
		<ul> <li>Establish rapport with individuals, families, and groups</li> </ul>
		Respect/value cultural differences in others
		Negotiate interpersonal conflict
		<ul> <li>Demonstrate problem solving and conflict resolution skills</li> </ul>



Gateway Technical College is committed to providing access and equal opportunity for all. Reasonable accommodations are provided for all education services, programs, and activities for individuals with disabilities. Students must be able to demonstrate these abilities with or without reasonable accommodations. Accommodations are determined and provided by disability support services. For more information related to the accommodations process, please visit <u>Disability Support Services</u>.

Student's Name (printed)	
Student's Name (signed)	
Date	