



# fire protection technician

## Associate in Applied Science (AAS) Program Code: 10-503-2 Total Credits: 64

Firefighters are known for taking quick action and performing under pressure, and Mid-State's Fire Protection Technician program prepares students to be successful in this challenging role. Graduates learn the knowledge and techniques needed to save life and property during fires, medical emergencies, and other hazards. This program will expose you to realistic simulations, inside and outside the classroom. You will train on our state-of-the-art burn tower, fire engines, and other high-tech equipment. Developed in partnership with local fire departments, this program ensures you have a competitive edge when starting your career, and local demand for highly skilled firefighters is rising.

Certain courses in Mid-State's Fire Protection Technician program prepare students to obtain state certification to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examinations, or licensure for other states.

**Estimated tuition and fees:** [mstc.edu/programcosts](http://mstc.edu/programcosts)

### ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit [mstc.edu/advising](http://mstc.edu/advising).

### CHECKLIST:

This section will be completed when meeting with your academic advisor.

- FAFSA ([www.fafsa.gov](http://www.fafsa.gov))
- Financial Aid Form(s)  
Form(s): \_\_\_\_\_
- Follow-Up Appointment:  
Where: \_\_\_\_\_  
When: \_\_\_\_\_  
With: \_\_\_\_\_
- Official Transcripts  
Mid-State Technical College  
Student Services Assistant  
1001 Centerpoint Drive  
Stevens Point, WI 54481
- Other: \_\_\_\_\_  
\_\_\_\_\_

**mstc.edu**  
**888.575.6782**  
**TTY: 711**



**ADAMS CAMPUS**  
401 North Main  
Adams, WI 53910

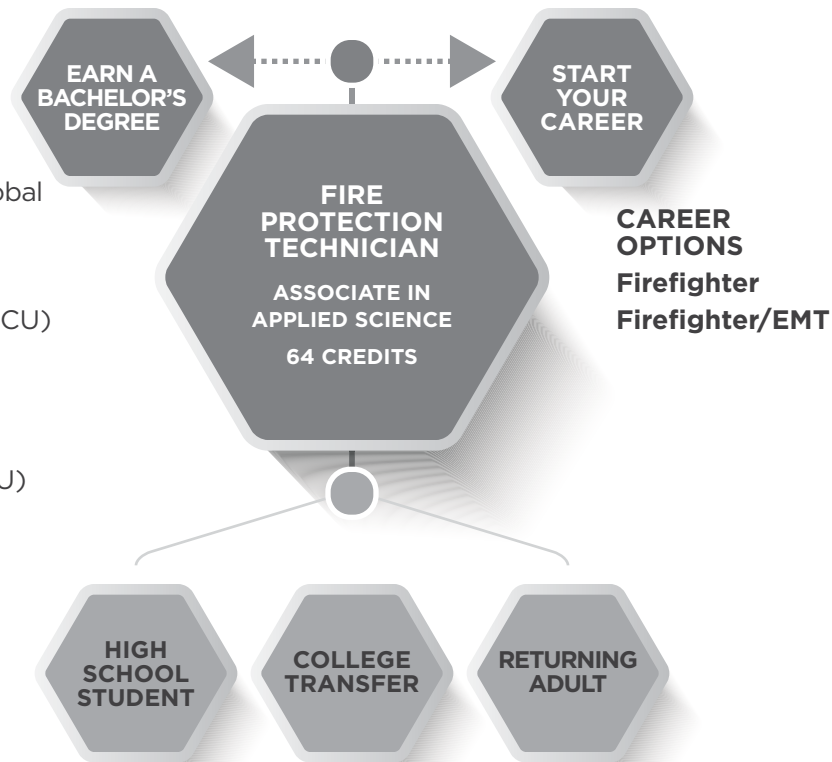
**MARSHFIELD CAMPUS**  
2600 West 5th Street  
Marshfield, WI 54449

**STEVENS POINT CAMPUS**  
1001 Centerpoint Drive  
Stevens Point, WI 54481

**WISCONSIN RAPIDS CAMPUS**  
500 32nd Street North  
Wisconsin Rapids, WI 54494

## BACHELOR'S DEGREE OPTIONS

Bellevue University  
Colorado State University Global  
Concordia University  
Franklin University  
Grand Canyon University (GCU)  
Lakeland University  
Milwaukee School of Engineering (MSOE)  
Mount Mary University (MMU)  
University of Phoenix  
UW-Green Bay  
UW-Marshfield of Wood County  
UW-Oshkosh  
UW-Stevens Point  
UW-Stout  
Wisconsin Private, Non-profit Universities/Colleges



**College Credit • Dual Credit • Military Experience • Work Experience**  
Learn about Credit for Prior Learning at [mstc.edu/cpl](http://mstc.edu/cpl).

**BEGIN AT ANY POINT  
IN THE PATHWAY**

**For more information and additional opportunities, visit [mstc.edu/transfer](http://mstc.edu/transfer).**

## OTHER OPTIONS

### RELATED PROGRAMS

- Advanced EMT
- Corrections & Community Advocacy
- Criminal Justice-Law Enforcement 720 Academy
- Criminal Justice-Studies
- Emergency Medical Technician
- Emergency Services Management
- EMT-Paramedic
- Paramedic Technician

## PROGRAM OUTCOMES

Employers will expect you, as a Fire Protection Technician graduate, to be able to:

- Demonstrate professional conduct by displaying personal code of ethics, positive work ethic, flexibility, teamwork skills, physical fitness, safe procedures, and sensitivity to diverse cultures and individuals.
- Perform fire prevention activities, including pre-planning, public education, inspection, and investigation.
- Apply incident management skills to emergency incidents.
- Meet professional fire and EMS credentialing standards.
- Communicate clearly and effectively both verbally and through written documentation with clients, coworkers, other agencies, and supervisors.
- Apply critical thinking skills to both emergency and non-emergency situations.

## PROGRAM PROGRESSION

Students must receive a grade of “C” or better in each of the technical and general education courses in order to qualify for graduation.

## TECHNICAL SKILLS ATTAINMENT

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure program outcomes attained by students. This requirement is called Technical Skills Attainment (TSA). The main objective of TSA is to ensure graduates have the technical skills needed by employers. Students are notified of TSA reporting in their final few courses of the program.

## TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as a fire protection technician is available at [mstc.edu/programs/fire-protection-technician](http://mstc.edu/programs/fire-protection-technician). Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

## STUDENT HANDBOOK

Visit [mstc.edu/studenthandbook](http://mstc.edu/studenthandbook) to view Mid-State’s student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State’s Student Code of Conduct, and technology.

## GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

### GPS for Student Success

**10890102 ..... 1 credit**

Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and is a graduation requirement.

## ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

### Intro to College Reading

**10838104 ..... 2 credits**

Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

### Intro to College Writing

**10831103 ..... 3 credits**

Introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents. The purpose of this course is to prepare students for successful entry into required program courses. This course is tuition bearing and under certain circumstances may qualify for financial aid. This course cannot be used to satisfy program completion requirements at Mid-State.

*Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.*

### Pre-Algebra

**10834109 ..... 3 credits**

Provides an introduction to algebra. Includes operations on real numbers, solving linear equations, percent and proportion, and an introduction to polynomials and statistics. Prepares students for elementary algebra and subsequent algebra-related courses.

*Prerequisite: Accuplacer Math score of 65, Accuplacer Algebra score of 30, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of “S.” (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)*

## SAMPLE FULL-TIME CURRICULUM OPTION

Term		16 credits
10503142	Firefighting Principles	4
10503143	Building Construction for Fire Protection	3
10503153	Hazardous Materials Awareness & Operations	1
10503191	Principles of Emergency Services	2
10531940	EMT Foundations	3
10804107	College Mathematics	3
Term		18 credits
10503112	Advanced Firefighting Practices	3
10503192	Principles of Emergency Services Safety and Survival	3
10503195	Fire Behavior & Combustion	3
10531941	EMT Applications	2
10806134	General Chemistry	4
10809198	Intro to Psychology	3
Term		15 credits
10503107	Firefighter Capstone	2
10503123	Occupational Safety and Health for the Emergency Services	3
10503151	Fire Prevention	4
10801136	English Composition 1	3
10809166	Intro to Ethics: Theory & Application	3
Term		15 credits
10503108	Firefighter Health and Fitness	2
10503111	Driver/Operator - Pumper	3
10503156	Strategies, Tactics, & Incident Management	4
10503193	Fire Protection Systems	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
<b>Total credits</b>		<b>64</b>

Please Note:

- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability. For details, go to [mstc.edu/classfinder](http://mstc.edu/classfinder).

## SAMPLE PART-TIME CURRICULUM OPTION

Term		8 credits
10503142	Firefighting Principles	4
10503153	Hazardous Materials Awareness & Operations	1
10531940	EMT Foundations	3
Term		6 credits
10531941	EMT Applications	2
10806134	General Chemistry	4
Term		8 credits
10503143	Building Construction for Fire Protection	3
10503191	Principles of Emergency Services	2
10804107	College Mathematics	3
Term		9 credits
10503112	Advanced Firefighting Practices	3
10503192	Principles of Emergency Services Safety and Survival	3
10809198	Intro to Psychology	3
Term		9 credits
10503123	Occupational Safety & Health for the Emergency Services	3
10801136	English Composition 1	3
10809166	Intro to Ethics: Theory & Application	3
Term		7 credits
10503156	Strategies, Tactics, and Incident Management	4
10503195	Fire Behavior & Combustion	3
Term		9 credits
10503107	Firefighter Capstone	2
10503151	Fire Prevention	4
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
Term		8 credits
10503108	Firefighter Health and Fitness	2
10503111	Driver/Operator - Pumper	3
10503193	Fire Protection Systems	3
<b>Total credits</b>		<b>64</b>

## Advanced Firefighting Practices

**10503112 .....3 credits**

Explores advanced firefighting skills, focusing on communications, investigations, and other advanced firefighting techniques. Fulfills the job performance requirements for Wisconsin Firefighter 2 certification eligibility.  
*Prerequisite: Fire Fighting Principles 10503142*

## Building Construction for Fire Protection

**10503143.....3 credits**

Provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies.

*Prerequisite: Admission to Fire Protection Technician program 105032 or Emergency Services Management program 105035*

## College Mathematics

**10804107 .....3 credits**

Designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. Topics include performing arithmetic operations and simplifying algebraic expressions, solving linear equations and inequalities in one variable, solving proportions and incorporating percent applications, manipulating formulas, solving and graphing systems of linear equations and inequalities in two variables, finding areas and volumes of geometric figures, applying similar and congruent triangles, converting measurements within and between US and metric systems, applying Pythagorean Theorem, solving right and oblique triangles, calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

*Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

## Driver/Operator - Pumper

**10503111 .....3 credits**

Provides instruction and opportunity to understand and put into practice basic defensive driving techniques. This course meets the requirements of NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications, Driver/Operator - Pumper Job Performance Requirements (JPRs).

*Prerequisite: Firefighting Principles 10503142*

## EMT Applications

**10531941.....2 credits**

Course covers the bulk of the Emergency Medical Technician certification course to include the handling of cervical and spine injuries, burn injuries, heart- and breathing-related problems, shock, and other trauma injuries. Includes several lab days to practice and perfect skills, clinical time, and extensive hands-on activities. Prepares students for national certification testing for EMT. To maintain National Registry certification eligibility this course must be finished the semester following the completion of EMT Foundations.

*Prerequisite: EMT Foundations 10531940*

## EMT Foundations

**10531940 .....3 credits**

Covers the basics of the Emergency Medical Technician certification course to include CPR, airways, anatomy, hazmat response requirements, lifting and moving patients, incident command, and other technical information. It is the first part of a two-course system to prepare students for national certification testing for EMT.

*Prerequisite: Admission to Emergency Medical Technician 305313 program*

## English Composition I

**10801136 .....3 credits**

Designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing, and revising are applied through a variety of activities. Students analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals develop critical reading skills through analysis of various written documents.

*Prerequisite: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10831103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

## Fire Behavior & Combustion

**10503195.....3 credits**

Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

*Prerequisite: Building Construction for Fire Protection 10503143 or Intro to Emergency Services 10503102*

## Fire Prevention

**10503151 ..... 4 credits**

Provides fundamental knowledge relating to the field of fire prevention. Topics include history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use and application of codes and standards, plans review, fire inspections, fire and life safety education, and fire investigation.

*Prerequisite: Firefighting Principles 10503142*

## Fire Protection Systems

**10503193.....3 credits**

Provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers.

*Prerequisite: Firefighting Principles 10503142*

## Firefighter Capstone

**10503107.....2 credits**

Prepares the learner for a career in the fire service through an applied research project or an internship. Learners will apply for an internship if they are interested; however, final determination for acceptance into an internship is dependent on department acceptance of the learner. If an internship is not desired or not made available the learner will work with faculty to develop an applied research project.

*Prerequisite: Firefighting Principles 10503142; Hazardous Materials Awareness & Operations 10503153*

## Firefighter Health and Fitness

**10503108 .....2 credits**

Prepares the learner for the physical requirements that are necessary for success as a firefighter. Focuses on preparation for the Firefighter Candidate Physical Ability Test (CPAT). Learners will also explore the concepts of wellness in areas such as diet, stress management, and perspective.

## Firefighting Principles

**10503142..... 4 credits**

Describes basic fire behavior, techniques used to control structural and related fire emergencies, and life safety practices. Students perform all practical evolutions necessary to control and extinguish fires and otherwise meet all requirements for Firefighter I certification in the State of Wisconsin.

*Prerequisite: Admission to Fire Protection Technician program 105032*

## General Chemistry

**10806134 ..... 4 credits**

Covers the fundamentals of chemistry. Topics include the metric system; problem solving; periodic relationships; chemical reactions, chemical equilibrium; properties of water; acids, bases, and salts; and gas laws. High School GPA of 3.0 or Accuplacer QAS of 246 or ACT of 19, or College Mathematics 10804107 with a "C" or better, or Intermediate Algebra with Applications 10804118 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

## Hazardous Materials Awareness & Operations

**10503153..... 1 credit**

Examines characteristics relating to hazardous materials, including problems of recognition and mitigation. Prepares students to advance toward the Hazardous Materials Technician Level.

*Corequisite: Fire Fighting Principles 10503142*

## Intro to Ethics: Theory & Application

**10809166 .....3 credits**

Provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives are used to analyze and compare relevant issues. Students critically evaluate individual, social, and/or professional standards of behavior, and apply a systemic decision-making process to these situations.

*Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

## Intro to Psychology

**10809198 .....3 credits**

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

*Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

## Occupational Safety and Health for Emergency Services

**10503123.....3 credits**

Introduces the basic concepts of occupational health and safety as it relates to emergency services organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.

*Prerequisite: Intro to Emergency Services 10503102*

## Oral/Interpersonal Communication

**10801196 .....3 credits**

Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

*Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

## Principles of Emergency Services

**10503191 .....2 credits**

Introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasizes fire and emergency service, ethics, and leadership from the perspective of the company officer.

*Prerequisite: Admission to Fire Protection Technician program 105032*

## Principles of Emergency Services Safety and Survival

**10503192.....3 credits**

Introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

*Prerequisite: Admission to Fire Protection Technician program 105032*

## Speech

**10801198 .....3 credits**

Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of this course. Bring transcripts for further evaluation if they do not meet these requirements.

*Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent.*

## Strategies, Tactics, & Incident Management

**10503156..... 4 credits**

Provides the principles of fire ground control through use of personnel, equipment, and extinguishing agents.

*Prerequisite: Firefighting Principles 10503142 or Intro to Emergency Services 10503102*