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# Fire Science - AAS

**Semester-by-Semester Pathway**

An Associates of Applied Science Degree emphasizes preparation in the applied arts and sciences for careers, typically at the technical or semi-professional level. This degree totals 64 credits. Consult with an advisor for more information. Not all courses are offered each semester.

( ) are Systemwide Transfer Courses

( ★ ) are recommended for this degree pathway.

| Semester 1 - Fall | | | | |
|---|---|---|---|---|
| **Complete** | **Course ID** | **Course Title** | **Credit Hours** | **Notes** |
| **Required Courses** | | | | |
| | EM110 | Emergency Medical Technician | 10.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS102 | Construction Methods and Materials | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS103 | Introduction to Professional Firefighting | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS110 | Firefighter I | 5.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS113 | Firefighter II | 4.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS150 | Hazardous Materials Operations for First Responder | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| **Electives** | | | | |
| | | **Semester Total**: | **28.00** | |

| Semester 2 - Spring | | | | |
|---|---|---|---|---|
| **Complete** | **Course ID** | **Course Title** | **Credit Hours** | **Notes** |
| **Required Courses** | | | | |
| | FS120 | Wildland Firefighter Type II | 3.00 | Fall 2026, Spring 2027 |
| | FS126 | Portable Pumps and Water Use | 1.00 | Fall 2026, Spring 2027 |
| | FS127 | Wildland Fire Powersaw Operations | 2.00 | Fall 2026, Spring 2027 |
| | FS128 | Wildland Firefighter Firing Operations | 1.00 | Fall 2026, Spring 2027 |
| | FS130 | Introduction to Fire Ground Strategy and Tactics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS141 | Fire Dynamics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS175 | Intro. to Fire & Emergency Services Administration | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| | FS203 | Fire Hydraulics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| **Electives** | | | | |
| | **Fire Science Electives** | | 2.00 | |
| | | **Semester Total**: | **21.00** | |

| Semester 3 - Fall |
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| Complete | Course ID | Course Title | Credit Hours | Notes |
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| **Required Courses** | | | | |
| **Electives** | | | | |
| | **General Education Options** | | 15.00 | |
| | | **Semester Total**: | **15.00** | |

## **Total Credits**: **64.00**

*Semester offerings reflect the current academic year.

| Fire Science Electives | | | |
|---|---|---|---|
| **Course ID** | **Course Title** | **Credit Hours** | **Notes** |
| EM131 | Cardiac Care (CPR) | 0.50 | Fall 2026, Spring 2027 |
| FS105 | Fire Attack | 1.00 | |
| FS107 | Basic Confined Space Rescue I | 1.50 | Prereq: FS108 Rope Rescue I. |
| FS108 | Rope Rescue I | 1.50 | Fall 2026, Spring 2027 |
| FS109 | Rope Rescue II | 1.50 | Prereq: FS108 Rope Rescue I. |
| FS122 | Incident Command System | 1.00 | Fall 2026, Spring 2027 |
| FS124 | Wildland Firefighter Internship I | 2.00 | |
| FS125 | Fire Service Internship I | 1.00 | |
| FS130 | Introduction to Fire Ground Strategy and Tactics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| FS136 | Fire Science Practicum I | 3.00 | Prereq: FS110 Firefighter I. |
| FS137 | Fire Science Practicum II | 3.00 | Prereq: FS136 Fire Science Practicum I. |
| FS141 | Fire Dynamics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| FS145 | Firefighter Fitness and Conditioning I | 1.00 | Fall 2026 |
| FS146 | Firefighter Fitness and Conditioning II | 1.00 | Spring 2027 |
| FS153 | Engine Company Operations | 1.00 | Spring 2027 |
| FS155 | Ice Rescue Operations | 1.50 | Spring 2027 |
| FS156 | Ice Rescue Technician | 1.00 | Spring 2027 |
| FS160 | Rapid Intervention Team | 1.00 | Fall 2026 |
| FS161 | Fire Rescue Special Operations | 1.00 | Fall 2026 |
| FS205 | Arson Investigation | 5.00 | |
| FS206 | Fire Apparatus Driver/Operator | 4.00 | Spring 2027 |
| FS209 | Fire Instructor I | 3.00 | Fall 2026, Spring 2027 |
| FS210 | Fire Safety Officer | 3.00 | Fall 2026, Spring 2027 |
| FS211 | Fire Officer I | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| FS212 | Fire Officer II | 3.00 | Fall 2026, Spring 2027, Summer 2027 |

| General Education Options | | | |
|---|---|---|---|
| **Course ID** | **Course Title** | **Credit Hours** | **Notes** |
| AR101 | Art Appreciation | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| AR104 | Art History: Paleolithic to Medieval | 3.00 | Fall 2026 |
| AR105 | Art History: Renaissance to Modern | 3.00 | Spring 2027 |
| AR106 | Art in the Elementary Classroom | 3.00 | Fall 2026, Spring 2027 |
| AR110 | Drawing I | 3.00 | Fall 2026 |
| BI100 | Basic Concepts for Allied Health Studies | 1.00 | Fall 2026, Spring 2027, Summer 2027 |
| BI101 | General Biology | 4.00 | Fall 2026, Spring 2027, Summer 2027 |
| BI102 | Ecology of Environmental Problems | 3.00 | Spring 2027 |
| BI103 | Human Anatomy and Physiology | 6.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: BI100 or BI101 or BI104 or BI105 or BI112 w/Grade of C. |
| BI104 | Biology I | 5.00 | Fall 2026, Spring 2027 |
| BI105 | Biology II | 5.00 | Spring 2027<br>Prereq: BI101 General Biology, or Departmental Consent, or BI104 Biology I. |

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| BI112 | General Microbiology | 4.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: (BI101,BI103,BI104,BI105)BI107 is not a valid prereq code. |
| BI115 | Basic Radiation Biology | 2.00 | Spring 2027<br>Prereq: BI103 Human A&P. |
| BU105 | Introduction to Business | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| BU107 | Personal Finance | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| BU108 | Business Mathematics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| BU109 | Business Communications | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| BU118 | Introduction to Leadership | 3.00 | Fall 2026, Spring 2027 |
| CH101 | General Chemistry | 5.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics. |
| CH105 | Chemistry I | 5.00 | Fall 2026, Spring 2027<br>Prereq: ACT Math Score of 21 or higher, or MA105 or higher math, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or Accuplacer Math Score of 81+. |
| CH106 | Chemistry II | 5.00 | Spring 2027<br>Prereq: CH105 Chemistry I with a C or Higher. |
| CH108 | Principles of Organic and Biochemistry | 5.00 | Fall 2026<br>Prereq: CH105 Chemistry I, or Departmental Consent. |
| CH201 | Organic Chemistry I | 5.00 | Fall 2026<br>Prereq: CH106 Chemistry II. |
| CH202 | Organic Chemistry II | 5.00 | Spring 2027<br>Prereq: CH201 Organic Chemistry I. |
| EC100 | Macroeconomics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| EC101 | Microeconomics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| ED105 | Success Seminar/College Orientation | 1.00 | Fall 2026, Spring 2027, Summer 2027 |
| ED201 | Introduction to Education | 3.00 | Fall 2026, Spring 2027<br>Prereq: a GPA of 2.5 or higher, and PS100 General Psychology. |
| ED201L | Introduction to Education Practicum | 1.00 | Fall 2026, Spring 2027<br>Prereq: a GPA of 2.5 or higher, and PS100 General Psychology. |
| EN101 | English Composition IA | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: HS GPA over 3.0, or Accu NG Writing Score 255+ & Accu NG Reading Score 255+, and ACT Reading Score of 18 or above, or ACT English Score of 18 or above. |
| EN102 | English Composition II | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: EN101 English Composition IA with a grade of C or higher, or EN101H English Comp IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN107 | Business English Grammar & Composition | 3.00 | Fall 2026, Spring 2027 |
| EN108 | Career and Technical Writing | 3.00 | Fall 2026, Spring 2027 |
| EN120 | Children's Literature | 3.00 | Fall 2026, Spring 2027 |
| EN121 | World Mythology | 3.00 | Spring 2027<br>Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN128 | Introduction to Creative Writing | 3.00 | Fall 2026, Spring 2027 |
| EN201 | Introduction to Literature | 3.00 | Fall 2026, Summer 2027<br>Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher. |
| EN202 | British Literature I | 3.00 | Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN203 | British Literature II | 3.00 | Spring 2027<br>Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN204 | American Literature I | 3.00 | Fall 2026<br>Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN205 | American Literature II | 3.00 | Spring 2027<br>Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN207 | Introduction to Shakespeare | 3.00 | Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN214 | Introduction to Cultural Studies: Fairy Tales | 3.00 | Fall 2026, Spring 2027 |

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| | | | Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| FR101 | Elementary French I | 5.00 | Spring 2027 |
| GE101 | World Geography | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| GO100 | American Government | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| GO101 | State and Local Government | 3.00 | |
| GO102 | International Relations | 3.00 | Spring 2027 |
| GO110 | Introduction to Political Science | 3.00 | Fall 2026 |
| GO110H | Honors Introduction to Political Science | 3.00 | Fall 2026 |
| HI101 | American History 1492-1865 | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| HI102 | American History 1865-Present | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| HI103 | World History to 1600 | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| HI104 | World History Since 1600 | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| HI122 | Film History of World War II | 3.00 | |
| HI201 | Topics in History | 3.00 | Spring 2027 |
| IS103 | Microcomputer Literacy | 2.00 | |
| IS104 | Microcomputer Applications | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| JL101 | Introduction to Mass Communications | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| LE101 | Introduction to Criminal Justice | 3.00 | Fall 2026, Spring 2027 |
| MA106 | College Algebra | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher. |
| MA107 | Plane Trigonometry | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36. |
| MA108 | Elements of Statistics | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher. |
| MA110 | Calculus | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36, or MA109 Pre-Calculus Math with a grade of C or higher. |
| MA111 | Analytical Geometry and Calculus I | 5.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: MA107 Plane Trigonometry with a grade of C or higher, or ACT Math Score of 25 to 36, or MA109 Pre-Calculus Math with a grade of C or higher. |
| MA113 | Analytical Geometry and Calculus II | 5.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: MA111 with a grade of C or higher. |
| MA117 | Contemporary Math | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher. |
| MA201 | Analytical Geometry and Calculus III | 5.00 | Fall 2026, Summer 2027<br>Prereq: MA113 with a grade of C or higher. |
| MA206 | Differential Equations | 3.00 | Spring 2027<br>Prereq: MA113 with a grade of C or higher. |
| MU101 | Music Appreciation | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| MU106 | Music Theory I | 3.00 | Fall 2026 |
| MU107 | Music Theory II | 3.00 | Spring 2027<br>Prereq: MU106 Music Theory I. |
| MU127 | Introduction To Jazz/Jazz Rock | 3.00 | Fall 2026, Spring 2027 |
| MU206 | Music Theory III | 3.00 | Fall 2026<br>Prereq: MU107 Music Theory II. |
| MU207 | Music Theory IV | 3.00 | Spring 2027<br>Prereq: MU206 Music Theory III. |
| PE105 | Personal and Community Health | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| PE122 | Rhythms I | 2.00 | Fall 2026 |
| PE123 | Rhythms II | 2.00 | Spring 2027 |
| PE126 | Conditioning & Fitness Concepts I | 1.00 | Fall 2026, Spring 2027 |

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| PE127 | Conditioning & Fitness Concepts II | 1.00 | Fall 2026, Spring 2027<br>Prereq: PE126 Conditioning & Fitness Concepts I. |
| PE173 | Fitness for Life | 1.00 | Fall 2026, Spring 2027, Summer 2027 |
| PL101 | Introduction to Philosophy | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| PL103 | Logic and Critical Thinking | 3.00 | Fall 2026, Spring 2027 |
| PL104 | Ethics | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| PL105 | Death and Dying | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| PS100 | General Psychology | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| PS101 | Human Relations | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| PS102 | Human Growth and Development | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: PS100 General Psychology. |
| PS201 | Psychology of Personality | 3.00 | Fall 2026, Spring 2027<br>Prereq: PS100 General Psychology with grade of C or higher. |
| PS202 | Abnormal Psychology | 3.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: PS100 General Psychology. |
| PY102 | Weather and Climate | 3.00 | Spring 2027 |
| PY103 | Physical Geology | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| PY104L | Physical Geology Lab | 1.00 | Fall 2026, Spring 2027, Summer 2027<br>Prereq: PY103 Physical Geology. |
| PY110 | Physical Science | 5.00 | Fall 2026, Spring 2027 |
| PY112 | General Physics I | 5.00 | Fall 2026<br>Prereq: MA106 College Algebra or higher math. |
| PY113 | General Physics II | 5.00 | Spring 2027<br>Prereq: PY112 Gen Physics I. |
| PY201 | Engineering Physics I | 5.00 | Fall 2026<br>Prereq: MA111 Analytical Geometry & Calculus I, or MA112H Honors Analytical Geometry & Calculus. |
| PY202 | Engineering Physics II | 5.00 | Spring 2027<br>Prereq: PY201 Eng Phys I with grade of C or better. |
| RE101 | New Testament Literature | 3.00 | Fall 2026, Spring 2027 |
| RE102 | Old Testament Literature | 3.00 | Fall 2026 |
| RE106 | Introduction to World Religions | 3.00 | Spring 2027 |
| SH101 | Public Speaking | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| SH103 | Oral Interpretation | 3.00 | |
| SH122 | Voice and Diction | 3.00 | Spring 2027 |
| SH210 | Interpersonal Communication | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| SO100 | Fundamentals of Sociology | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| SO101 | Marriage and Family | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| SO103 | Stress Management | 1.00 | Fall 2026, Spring 2027, Summer 2027 |
| SO104 | Assertiveness Training | 2.00 | Fall 2026, Spring 2027, Summer 2027 |
| SO111 | Cultural Anthropology | 3.00 | Fall 2026, Spring 2027, Summer 2027 |
| SO113 | Cultural Diversity | 3.00 | Fall 2026, Spring 2027 |
| SO122 | Introduction to Social Work | 3.00 | Fall 2026, Spring 2027 |
| SO201 | Social Problems | 3.00 | Spring 2027, Summer 2027<br>Prereq: SO100 Fundamentals of Sociology. |
| SP100 | Workplace Spanish | 2.00 | |
| SP101 | Elementary Spanish I | 5.00 | Fall 2026, Spring 2027, Summer 2027 |
| SP102 | Elementary Spanish II | 5.00 | Fall 2026, Spring 2027<br>Prereq: SP101 Elementary Spanish I. |
| TH115 | Theatre Appreciation | 3.00 | Fall 2026, Spring 2027 |
| TH116 | Acting I | 3.00 | Fall 2026 |
| TH118 | Stagecraft | 3.00 | Fall 2026 |

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| TH119 | Stage Makeup | 3.00 | Fall 2026 |
| TH121 | Acting II | 3.00 | Fall 2026<br>Prereq: TH116 Acting I with a grade of C or better. |
| TH122 | Voice and Diction | 3.00 | Spring 2027 |
| TH123 | Theatre Practicum I | 1.00 | Fall 2026, Spring 2027 |
| TR100 | Technical Math | 3.00 | Fall 2026, Spring 2027 |
| TR120 | Work Ethics | 2.00 | Fall 2026, Spring 2027 |

**Program Notes**:

A grade of "C" or better is required for all degree-specific courses.