## Emergency Medical Services (EMS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture + Lab + Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS F121</td>
<td>Emergency Med Tech II</td>
<td>2</td>
<td>2 + 0 + 0</td>
</tr>
<tr>
<td>EMS F123</td>
<td>Emergency Med Tech III</td>
<td>3</td>
<td>3 + 0 + 0</td>
</tr>
<tr>
<td>EMS F150</td>
<td>Wilderness Emergency Care</td>
<td>3</td>
<td>3 + 0 + 0</td>
</tr>
<tr>
<td>EMS F152</td>
<td>Emergency Trauma Training First Responder</td>
<td>3</td>
<td>2 + 2 + 0</td>
</tr>
<tr>
<td>EMS F152P</td>
<td>Emergency Trauma Training First Responder</td>
<td>3</td>
<td>2 + 2 + 0</td>
</tr>
<tr>
<td>EMS F154</td>
<td>Emergency Trauma Training Refresher</td>
<td>1</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>EMS F154P</td>
<td>Emergency Trauma Training Refresher</td>
<td>1</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>EMS F160</td>
<td>Basic Trauma Life Support</td>
<td>1</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>EMS F168</td>
<td>ETT to EMT Bridge Course</td>
<td>3</td>
<td>0.5 + 5 + 0</td>
</tr>
<tr>
<td>EMS F170</td>
<td>EMT: Emergency Medical Technician I</td>
<td>6</td>
<td>4 + 4 + 0</td>
</tr>
<tr>
<td>EMS F170P</td>
<td>EMT: Emergency Medical Technician I</td>
<td>6</td>
<td>4 + 4 + 0</td>
</tr>
<tr>
<td>EMS F172</td>
<td>EMT: Emergency Medical Technician I Refresher</td>
<td>1</td>
<td>0.5 + 1 + 0</td>
</tr>
<tr>
<td>EMS F173</td>
<td>EMT Internship</td>
<td>6</td>
<td>0 + 16 + 0</td>
</tr>
<tr>
<td>EMS F176</td>
<td>Aeromedical Evacuations in Alaska</td>
<td>1</td>
<td>1 + 0 + 0</td>
</tr>
</tbody>
</table>

### Prerequisites

- For EMS F152 or ETT Certification which may not be expired.
- Current Emergency Trauma Technician certificate.
- EMS F152 or ETT Certification which may not be expired.
- EMT I certification.
- For individuals planning to participate in the CTC paramedic program in the fall semester. Interns will perform all aspects of emergency care for an Alaska certified EMT I under the guidance of an Advanced Care Provider.
- EMT I level knowledge and techniques must occur before moving on to advanced levels.
- Cross-listed with ARSK F170.
- Cross-listed with ARSK F170.

### Notes

- Academic demanding training includes basic anatomy and physiology, appropriate medical emergency training and non-threatening injuries, common medical emergencies and a variety of environmental injuries. Academically challenging training includes basic anatomy and physiology, appropriate short-term to multi-day patient care, the incident command system and evacuation and considerations.
- Basic emergency care knowledge and skills for the student who will provide the first emergency care. The objective of the first person on the emergency scene is to recognize the needs of the victim and deliver quality care to the patient, minimizing discomfort and preventing further complications.
- Basic emergency care knowledge and skills for the student who will provide the first emergency care. The objective of the first person on the emergency scene is to recognize the needs of the victim and deliver quality care to the patient, minimizing discomfort and preventing further complications.
- Review of basic skills and emergency medical procedures at the Basic EMT I level. Covers emergency medical care procedural changes, newly developed equipment and its use, changes in state licensure or other medical-legal requirements. Also offered Pass/Fail as EMS F172P.
- Synthesize cognitive and psychomotor skills from the EMT I course and observe skills performed by Advanced Care Providers. Designed for individuals planning to participate in the CTC paramedic program in the fall semester. Interns will perform all aspects of emergency care for an Alaska certified EMT I under the guidance of an Advanced Care Provider.
- Basic life support such as splinting, hemorrhage control, oxygen therapy, suction, CPR and use of automated external defibrillators (AEDs). EMT I is the foundation of all emergency medical training. Mastering of EMT I level knowledge and techniques must occur before moving on to advanced levels.
- Basic life support such as splinting, hemorrhage control, oxygen therapy, suction, CPR and use of automated external defibrillators (AEDs). EMT I is the foundation of all emergency medical training. Mastering of EMT I level knowledge and techniques must occur before moving on to advanced levels.
- Allows certified emergency trauma technician (ETT) to progress to the emergency medical technician in an efficient manner. Credits the ETT with the knowledge and skills learned in primary training.
- Cross-listed with ARSK F170.
EMS F181  Clinical Rotation I
4 Credits
Offered Fall, As Demand Warrants
Perform paramedic skills in the hospital setting under the guidance of a clinical preceptor. Rotations include the emergency department, ICU, operating room, respiratory therapy, and mental health units. Provides an in-depth look at the respiratory, circulatory and nervous systems. Includes interpretation of cardiac rhythms and advanced cardiac life support. Note: Student must have the strength to be able to move patients, sufficient vision to assess the condition of the patient and the dexterity to perform the skills of a paramedic.
Prerequisites: Permission of program coordinator.
Lecture + Lab + Other: 0 + 4 + 4

EMS F183  Clinical Rotation II
4 Credits
Offered Spring, As Demand Warrants
Perform paramedic skills in the hospital setting under the guidance of a clinical preceptor. Rotations include the emergency department, ICU, OR, labor and delivery, pediatrics and geriatrics. Note: Student must have the strength to be able to move patients, sufficient vision to assess the condition of the patient and the dexterity to perform the skills of a paramedic.
Prerequisites: EMS F181.
Lecture + Lab + Other: 0 + 4 + 4

EMS F251  Basic Life Support Instructor
1 Credit
Offered As Demand Warrants
The American Heart Association Basic Life Support instructor's course provides the knowledge and skills necessary to instruct and evaluate potential BLS providers. Balances what information to teach with how to teach BLS. The BLS instructor student will be monitored during the first class she/he teaches by the BLS instructor trainer.
Prerequisites: Basic Life Support certified; permission of program coordinator.
Lecture + Lab + Other: 1 + 0 + 0

EMS F253  Alaska EMT Instructor Orientation (a)
3 Credits
Offered As Demand Warrants
Adult education and learning environment, as well as regulations governing the teaching of EMTs in the state of Alaska. This course is designed to be an intensive learning experience with extensive out-of-class preparation. Proficiency with EMT skills and knowledge prior to entering this training program is expected as there will be no review of EMT skills or knowledge during this class.
Prerequisites: Current EMT I, II, III or MICP certification and three years of experience; evidence of successful completion of state of Alaska practical exam and written exam with a score of 90% within the last 12 months.
Recommended: FIRE F216.
Lecture + Lab + Other: 3 + 0 + 0

EMS F257  Arctic Survival (a)
3 Credits
Offered Spring
Principles, procedures, techniques and equipment necessary to survive extreme Arctic conditions and to assist in safe recovery. Lab required.
Cross-listed with AVTY F231.
Lecture + Lab + Other: 3 + 0 + 0

EMS F261  EMT: Emergency Medical Technician II
3 Credits
Offered Spring
Advancement of EMT I skills and knowledge through advanced techniques in fluid therapy and advance airway management. Includes use of specific drug therapy.
Prerequisites: EMT I certification and proof of 10 patient contacts as an EMT I.
Lecture + Lab + Other: 2 + 2 + 0

EMS F265  Emergency Medical Technician III
2 Credits
Offered Fall
Introduction to basic cardiac anatomy and physiology, cardiac electrophysiology, recognition and treatment of basic lethal arrhythmias, use of monitor, defibrillator and pharmacological management.
Prerequisites: EMT II certification and proof of 10 patient contacts and 10 venipunctures as an EMT II.
Lecture + Lab + Other: 0.5 + 3 + 0

EMS F265P  Emergency Medical Technician III
2 Credits
Offered Fall
Introduction to basic cardiac anatomy and physiology, cardiac electrophysiology, recognition and treatment of basic lethal arrhythmias, use of monitor, defibrillator and pharmacological management.
Prerequisites: EMT II certification and proof of 10 patient contacts and venipunctures as an EMT II.
Lecture + Lab + Other: 0.5 + 3 + 0

EMS F267  Advanced Medical Procedures
1 Credit
Offered As Demand Warrants
State requirements for recertification at the EMT II or III levels. Reviews advanced medical skills and emergency medical procedures at the EMT II and III levels. Emergency medical care procedural changes, newly developed equipment and its use, changes in state certification and other medical-legal requirements. Course may be repeated ten times but not for credit.
Prerequisites: Current EMT II or III certification.
Lecture + Lab + Other: 0.5 + 1 + 0
EMS F270 | Advanced Emergency Medical Technician | Advanced Emergency Medical Technician
---|---|---
10 Credits
Offered As Demand Warrants
The Advanced Emergency Medical Technician (AEMT) training includes invasive procedures such as IV therapy, the use of advanced airway devices and medication administration. Individuals that complete the course are eligible to take the National Registry AEMT exam.
**Prerequisites:** Current state or national EMT certification; current AHA CPR certification; departmental approval.

EMS F170

EMS F280 | Paramedicine I
---|---|---
12 Credits
Offered Fall, As Demand Warrants
Introduction to emergency medical services, the roles and responsibilities of a paramedic and medical/legal/ethical issues. Basic pathophysiology, pharmacology, venous access and advanced airway management techniques. Also includes an in-depth look at the circulatory, respiratory and nervous systems which includes interpretation of cardiac rhythms, pharmacology and advanced cardiac life support. Note: Student must apply for admission into the Paramedic Academy. Applications are reviewed by the Paramedic Advisory board. Note: Student must have the strength to be able to move patients, sufficient vision to assess the condition of the patient and the dexterity to perform the skills of a paramedic.

**Prerequisites:** EMS F170.
**Recommended:** HTLH F114 or equivalent.

EMS F282 | Paramedicine II
---|---|---
12 Credits
Offered Spring, As Demand Warrants
Assessment and management of medical emergencies, geriatrics, pediatrics and traumatic injuries. Includes pediatric advanced life support and basic trauma life support certifications. Note: Student must have the strength to be able to move patients, sufficient vision to assess the condition of the patient and the dexterity to perform the skills of a paramedic.

**Prerequisites:** EMS F280.

EMS F283 | Paramedic Internship
---|---|---
12 Credits
Offered Spring
Prehospital field experience under the guidance of a paramedic preceptor on an advanced life support ambulance. Interns perform all aspects of paramedic care. Note: Student must have the strength to be able to move patients, sufficient vision to assess the condition of the patient and the dexterity to perform the skills of a paramedic.

**Prerequisites:** EMS F183.

EMS F287 | Paramedic Refresher
---|---|---
3 Credits
Offered As Demand Warrants
Integration of paramedicine knowledge and techniques with evaluation of applied skills. Note: Student must have the strength to be able to move patients, sufficient vision to assess the condition of the patient and the dexterity to perform the skills of a paramedic.

**Prerequisites:** Current State of Alaska or National Registry paramedic license.

**Lecture + Lab + Other:** 2 + 2 + 0