

# Emergency Medical Services (EMS)

## Community and Technical College

EMS & Paramedicine Program (<https://www.ctc.uaf.edu/programs/ems-paramedicine/>)  
907-455-2800

### EMS F150 Wilderness Emergency Care

3 Credits

Offered Summer

Introduction to medicine in a remote setting. Assessment and management of life-threatening 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.

**Lecture + Lab + Other:** 3 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

### EMS F152 Emergency Trauma Training First Responder

3 Credits

Offered Summer

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.

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

**Grading System:** Letter Grades with option of Plus/Minus

### EMS F152P Emergency Trauma Training First Responder

3 Credits

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.

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

**Grading System:** Pass/Fail Grades

### EMS F154 Emergency Trauma Training Refresher

1 Credit

Offered Summer

For individuals who have been previously certified in Emergency Trauma Training (40 hrs.). Certification is valid for two years.

**Prerequisites:** EMS F152 or ETT Certification which may not be expired more than one calendar year.

**Lecture + Lab + Other:** 1 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

### EMS F154P Emergency Trauma Training Refresher

1 Credit

For individuals who have been previously certified in Emergency Trauma Training (40 hrs.). Certification is valid for two years.

**Prerequisites:** EMS F152 or ETT Certification which may not be expired more than one calendar year.

**Lecture + Lab + Other:** 1 + 0 + 0

**Grading System:** Pass/Fail Grades

### EMS F170 EMT: Emergency Medical Technician I

6 Credits

Offered As Demand Warrants

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.

**Cross-listed with ARSK F170.**

**Lecture + Lab + Other:** 4 + 4 + 0

**Grading System:** Letter Grades with option of Plus/Minus

### EMS F170P EMT: Emergency Medical Technician I

6 Credits

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.

**Cross-listed with ARSK F170.**

**Lecture + Lab + Other:** 4 + 4 + 0

**Grading System:** Pass/Fail Grades

### EMS F173 EMT I Internship

6 Credits

Offered As Demand Warrants

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.

**Prerequisites:** EMS F170; concurrent EMT I certification.

**Lecture + Lab + Other:** 0 + 16 + 0

**Grading System:** Pass/Fail Grades

### EMS F181 Clinical Rotation I

4 Credits

Offered Fall

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.

**Prerequisites:** Permission of program coordinator.

**Special Notes:** 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.

**Lecture + Lab + Other:** 0 + 4 + 4

**Grading System:** Letter Grades with option of Plus/Minus

### EMS F183 Clinical Rotation II

4 Credits

Offered Spring

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.

**Prerequisites:** EMS F181.

**Special Notes:** 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.

**Lecture + Lab + Other:** 0 + 4 + 4

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F253 Alaska EMT Instructor Orientation**

3 Credits

Offered As Demand Warrants

Adult education and learning environment and regulation governing teaching of EMTs in Alaska. Designed to be an intensive learning experience with extensive out-of-class preparation. Must be certified at EMT level for 3 years.

**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

**Grading System:** Pass/Fail Grades

**EMS F257 Arctic Survival**

3 Credits

Offered Spring

Use of principles, procedures, techniques and equipment to survive extreme Arctic conditions and assist in safe recovery. Lab required.

**Cross-listed with** AVTY F231.

**Lecture + Lab + Other:** 3 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F261 EMT: Emergency Medical Technician II**

3 Credits

Offered As Demand Warrants

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

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F261P EMT: Emergency Medical Technician II**

3 Credits

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 documentation of 10 patient contacts by the first day of class as described in State EMT regulations: 7AAC26.010.

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

**Grading System:** Pass/Fail Grades

**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

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F270 Advanced Emergency Medical Technician**

10 Credits

Offered Fall and Spring

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.

**Lecture + Lab + Other:** 8 + 6 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F280 Paramedicine I**

12 Credits

Offered Fall

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.

**Prerequisites:** EMS F170.

**Recommended:** HLTH F114 or equivalent.

**Special Notes:** Student must apply for admission into the Paramedic Academy; Applications are reviewed by the Paramedic Advisory board; 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.

**Lecture + Lab + Other:** 8 + 8 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F282 Paramedicine II**

12 Credits

Offered Spring

Assessment and management of medical emergencies, geriatrics, pediatrics and traumatic injuries. Includes pediatric advanced life support and basic trauma life support certifications.

**Prerequisites:** EMS F280.

**Special Notes:** 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.

**Lecture + Lab + Other:** 8 + 8 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F283 Paramedic Internship**

12 Credits

Offered Summer

Prehospital field experience under the guidance of a paramedic preceptor on an advanced life support ambulance. Interns perform all aspects of paramedic care.

**Prerequisites:** EMS F183.

**Special Notes:** 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.

**Lecture + Lab + Other:** 0 + 24 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**EMS F285 Paramedic Testing**

1 Credit

Offered As Demand Warrants

This course prepares the paramedic student for the summative paramedic exam. It is a review of the cognitive/affective behaviors and psychomotor skills taught throughout the fall and spring semesters of the paramedic program.

**Prerequisites:** EMS F283 (may be taken concurrently).

**Lecture + Lab + Other:** 0.5 + 1 + 0

**Grading System:** Pass/Fail Grades

**EMS F287 Paramedic Refresher**

3 Credits

Offered As Demand Warrants

Integration of paramedicine knowledge and techniques with evaluation of applied skills.

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

**Special Notes:** 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.

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

**Grading System:** Letter Grades with option of Plus/Minus