

# 2021-2022 TTC Catalog - Emergency Medical Technology (EMS)

---

## EMS 102 - Principles of Emergency Medical Care I

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

### Course Offered

Fall

This course is a study of emergency medical care procedures for the emergency medical technician. It is designed to cover topics related to the preparation of an emergency medical technician, the human body and body systems, EMS operations and patient assessment.

**Grade Type:** Letter Grade

**Restrictions:** Restricted to EMT majors.

**Division:** Health Sciences

---

## EMS 103 - Principles of Emergency Medical Care II

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### Course Offered

Fall

This course is a study of emergency medical care procedures for the emergency medical technician. It is designed to cover topics related to identification and treatment of medical, respiratory, cardiovascular, trauma and special population emergencies.

### Prerequisite

EMS 102

### Corequisite

EMS 212

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## EMS 107 - Advanced Emergency Care I

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

**Course Offered**

Spring

This course is a study of emergency medical care procedures for the advanced emergency medical technician. It is designed to cover topics related to the preparation of an advanced emergency medical technician, the human body and body systems, operations and patient assessment.

**Prerequisite**

BIO 210

and

EMS 103

or

NREMT EMT certification

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

**EMS 108 - Advanced Emergency Care II**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

**Course Offered**

Spring

This course is a study of emergency medical care procedures for the advanced emergency medical technician. It is designed to cover topics related to identification and treatment of general medical, respiratory, cardiovascular, trauma and special population emergencies.

**Prerequisite**

EMS 107

**Corequisite**

EMS 219

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

**EMS 115 - International Trauma Life Support**

**Lec:** 0 **Lab:** 3.0 **Credit:** 1.0

**Course Offered**

Spring

This course is designed to educate the experienced pre-hospital health care provider in dealing with critically injured trauma patients in an emergency setting. An understanding of trauma care equipment, basic trauma related and assessment skills is necessary. Current NAEMT PHTLS guidelines will be followed.

Departmental approval

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 116 - Advanced Cardiac Life Support**

**Lec:** 0 **Lab:** 3.0 **Credit:** 1.0

### **Course Offered**

Summer

This course is designed to educate the experienced health care provider in dealing with critical cardiac patients in an acute, emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary. Current American Heart Association guidelines will be followed.

Departmental approval

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 117 - Pediatric Advanced Life Support**

**Lec:** 0.5 **Lab:** 1.5 **Credit:** 1.0

### **Course Offered**

Fall

This course is designed to educate the experienced health care provider in dealing with critical pediatric patients suffering from acute cardiac and respiratory problems in an emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary.

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 120 - Pharmacology**

**Lec:** 3.0 **Lab:** 0 **Credit:** 3.0

### **Course Offered**

Summer

This course is a study of concepts related to the pharmacological actions of groups of drugs and includes the development of skills related to the administration of medications and intravenous therapy. Physiology of systems affected by drug action is also included in the course.

**Prerequisite**

BIO 211

and

EMS 108

or

NREMT AEMT certification

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 211 - Advanced Clinical Experience I**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

**Course Offered**

Fall

This course includes hospital clinical experiences in obstetrics (labor/delivery), pediatrics and emergency/trauma settings.

**Prerequisite**

EMS 120

and

EMS 217

and

EMS 220

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 212 - EMS Field Internship**

**Lec:** 0 **Lab:** 6.0 **Credit:** 2.0

**Course Offered**

Fall

This course includes experiences with advanced life support emergency medical services.

**Corequisite**

EMS 103

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

**EMS 214 - Advanced Clinical Experience II**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

**Course Offered**

Spring

This course includes hospital clinical experiences in coronary care and emergency and trauma settings.

**Prerequisite**

EMS 211

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

**EMS 217 - Introduction to Electrocardiography**

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

**Course Offered**

Summer

This course covers the basic principles of recognizing and interpreting EKG tracings. Laboratory emphasis is placed on the operation of electrocardiographic equipment.

**Prerequisite**

BIO 211

and

EMS 108

or

NREMT AEMT certification

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 219 - Advanced EMS Field Internship II**

**Lec:** 0 **Lab:** 6.0 **Credit:** 2.0

### **Course Offered**

Summer

This course builds in the knowledge and skills of advanced emergency medical practice in the pre-hospital environment. Focus is on situations involving complex patient problems including trauma, surgical and medical emergencies and the treatment modalities.

### **Prerequisite**

EMS 212

### **Corequisite**

EMS 108

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 220 - Paramedic Internship I**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

### **Course Offered**

Summer

This course includes experiences with advanced life support emergency medical service providers.

### **Prerequisite**

BIO 211

and

EMS 108

or

NREMT AEMT certification

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 221 - Paramedic Internship II**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

### **Course Offered**

Fall

This course builds on the experiences gained in Paramedic Internship I. Focus is on the students and their ability to apply knowledge gained in the classroom during emergency situations while treating a wide variety of patients in different situations.

**Prerequisite**

EMS 220

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

**EMS 222 - Paramedic Internship III**

**Lec:** 0 **Lab:** 9.0 **Credit:** 3.0

**Course Offered**

Spring

This course builds on the experiences gained in Paramedic Internship II. Focus is centered on the student's ability to function as the EMS team leader and direct patient care in any emergency situation. A capstone experience is required.

**Prerequisite**

EMS 221

and

EMS 214

and

EMS 234

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

**EMS 233 - Paramedic Emergency Medical Care I**

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

**Course Offered**

Fall

Summer

This course is an introduction to the study of emergency medical care procedures for the paramedic provider. It is designed to cover topics related to the preparation of a paramedic, the human body and body systems, operations and patient assessment.

**Corequisite**

EMS 211

and

EMS 221

and

EMS 219

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 234 - Paramedic Emergency Medical Care II**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Fall

This course is a study of emergency medical care procedures for the paramedic provider, including concepts and skills related to medical emergencies. Emphasis is on pathophysiology and treatment modalities related to the major systems of the body such as the respiratory and cardiovascular systems.

### **Prerequisite**

EMS 233

### **Corequisite**

EMS 211

and

EMS 221

and

EMS 117

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 235 - Paramedic Emergency Medical Care III**

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

### **Course Offered**

Spring

This course is a study of emergency medical care procedures for the paramedic provider, including special population emergencies. Emphasis is on pathophysiology and treatment modalities related to special needs patients such as geriatric, and neonatal patients with special challenges.

### **Prerequisite**

EMS 234

and

EMS 221

and

EMS 211

**Grade Type:** Letter Grade

**Division:** Health Sciences

---

## **EMS 236 - Paramedic Emergency Medical Care IV**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Spring

This course is a study of emergency medical care procedures for the paramedic provider covering topics related to traumatic injuries. Emphasis is on pathophysiology and treatment modalities related to the patient who has experienced a traumatic injury.

### **Prerequisite**

EMS 235

and

EMS 221

### **Corequisite**

EMS 214

and

EMS 222

**Grade Type:** Letter Grade

**Division:** Health Sciences

---