

2024-2025 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

Spring

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

Spring

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

Fall

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

Fall

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

Fall

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

Spring

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
Spring

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

Fall

Spring

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

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.

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

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

Fall

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

Grade Type: Letter Grade

Division: Health Sciences
