

EMERGENCY MEDICAL SERVICES (EMED)

EMED 181 First Aid 1 Credit Hour

Basic Course in first aid. Theoretical and practical experience in university laboratory. (0.5, 1.5) 1

EMED 188 Wilderness First Responder 2 Credit Hours (1,3)

The student will learn concepts and hands-on strategies to respond to medical emergencies in a remote setting of at least one hour from professional medical care. Students who successfully complete the course will receive a WFR certificate. There are no prerequisites or co-requisites. This course may not be repeated for credit. Course may be taught in non-traditional scheduling format.

EMED 189 Medical First Responder 3 Credit Hours (2,3)

This course is designed to teach students the principles of basic life support and emergency care. Topics include patient assessment and handling, airway maintenance, cardiopulmonary resuscitation, bandaging, splinting and spinal immobilization. Management of common environmental and medical emergencies will also be addressed. Upon successful completion of the course, students will be eligible to apply for a Michigan Medical First Responder license.

EMED 190 Prehsp Em Care/Crisis Intv I 4 Credit Hours (3,3)

Techniques of emergency medical care needed by the emergency medical technician-ambulance attendant. Theoretical and practical experience in administering preliminary emergency care and transportation of sick and injured victims to medical care centers.

EMED 191 Prehsp Em Care/Crisis Intv II 4 Credit Hours (3,3)

Simulated practice with some in-hospital observation. Emphasis on laboratory practice of skills needed for function of an EMT-B.

Prerequisite(s): EMED190

EMED 211 Emergency Pharmacology I 2 Credit Hours (2,0)

Introduction to emergency pharmacology including sources of drugs, drug laws and regulation, routes of administration, pharmacokinetics and pharmacodynamics, dosage calculations and the metric system. Emphasis will be placed on drugs used in the management of cardiovascular emergencies.

Prerequisite(s): Math competency or MATH102

Corequisite(s): EMED251

EMED 212 Emergency Pharmacology II 2 Credit Hours (2,0)

Continuation of EMED211 with an overview of emergency drugs frequently used in the prehospital management of respiratory, endocrine, toxicological, obstetrical and other prehospital emergencies. Administration procedures and dosages for adult and pediatric patients will be covered.

Prerequisite(s): EMED211 with a B- or above

EMED 251 Advanced Emergency Care I 4 Credit Hours (4,0)

Study of prehospital emergencies geared toward rapid intervention and patient stabilization. Introduction to the pre-hospital environment and preparatory information will be covered including medical-legal issues, airway management, parenteral therapy and comprehensive patient assessment. Management of traumatic injury and multiple casualty incidents will be addressed.

Prerequisite(s): admission to Paramedic Technology Program

EMED 252 Advanced Emergency Care II 4 Credit Hours (4,0)

Continuation of EMED251 addressing treatment modalities for environmental, medical, obstetrical and behavioral emergencies in the adult and pediatric patient.

Prerequisite(s): EMED251 with a B- or above

EMED 261 Emergency Cardiology I 2 Credit Hours (2,0)

Introduction to basic cardiac monitoring and dysrhythmia recognition. Review of the anatomy and physiology of the cardiovascular system, principles of electrophysiology, EKG interpretation and dysrhythmia management will be covered. Sinoatrial, junctional and atrial dysrhythmias will be addressed.

Corequisite(s): EMED251

EMED 262 Emergency Cardiology II 2 Credit Hours (2,0)

Continuation of EMED261 with emphasis directed at identification and management of life-threatening dysrhythmias including ventricular dysrhythmias and heart blocks. Coronary artery disease, myocardial infarction and other cardiovascular emergencies will be addressed, and the course will conclude with ACLS certification.

Prerequisite(s): EMED261 with a B- or above

EMED 271 Care of Special Populations 2 Credit Hours (2,0)

This course will prepare the Emergency Paramedic to effectively assess and manage special patient populations in the emergency setting. Course content will include differentiation between the normal adult and special patient populations, including assessment of the neonatal and pediatric patient and management of common medical and traumatic conditions experienced by the pediatric patient. Special emphasis will be placed on patient care needs and decision-making strategies unique to special patient populations, including resuscitation skills.

Prerequisite(s): EMED211, EMED251, EMED261, EMED284, EMED286, EMED297 all with a B- or above

EMED 284 Advanced Skills/Situations I 3 Credit Hours (1,6)

Advanced skills and procedures discussed in Advanced Emergency Care will be demonstrated and practiced in a laboratory setting. Skills covered will include advanced airway management, parenteral therapy, cardiac monitoring and advanced patient assessment. Simulated patient scenarios will be designed to allow the student to practice these advanced skills in a realistic patient setting. Emphasis will be placed upon strengthening new skills and providing critical thinking opportunities which allow the the integration of theory with practical applications. Co-requisite EMED251.

Prerequisite(s): Admission to the Paramedic Technology Program

EMED 285 Advanced Skills/Situations II 3 Credit Hours (1,6)

Continuation of EMED284 with an emphasis placed on ACLS and PALS procedures and algorithms. Instructor and peer evaluation will enhance learning, and working in groups will promote the concepts of teamwork and individual leadership.

Prerequisite(s): EMED284 with a B- or above

Corequisite(s): EMED252

EMED 286 Paramedic Operations 2 Credit Hours (1,3)

This course will prepare the Emergency Paramedic to effectively handle unique situations which may be encountered in the prehospital setting that require highly specialized training. Program material will include managing multiple casualty situations, Medical Incident Command, hazardous materials incidents, rescue awareness and operations and crime scene awareness. Special emphasis will be placed on rescuer safety. Practical skills will include vehicular entry and disentanglement, and basic rescue operations.

Corequisite(s): EMED251

EMED 297 Paramedic Clinical I 2 Credit Hours (0,12)

Clinical rotations in the hospital emergency department, surgical suite, outpatient surgery and with local EMS agencies designed to provide the student with hands-on practical experience of patient care.

Corequisite(s): EMED251 and permission of instructor

EMED 298 Paramedic Clinical II 2 Credit Hours (0,12)

Clinical rotations in the hospital emergency department, intensive care unit, obstetrical unit, pediatrics unit and local EMS agencies will provide the student with a continuation of clinical exposure. Additional clinical experience in other areas may be included as the opportunity permits.

Prerequisite(s): EMED297 with a B- or above

Corequisite(s): EMED252

EMED 301 Natl Registry Certificatn Prep 2 Credit Hours (2,0)

This course is designed to prepare the Paramedic Student to challenge the National Registry Paramedic Certification Examination upon completion of the didactic, practical and clinical components of the Paramedic Technology Program. It will provide the student with an opportunity to thoroughly review key information in the 8 modules of the National Standard Paramedic Curriculum. Emphasis will also be placed on improving the student's test-taking skills.

Prerequisite(s): EMED212, EMED252, EMED262, EMED271, EMED285, and EMED298 all with a B- or above

EMED 302 Paramedic Field Internship 4 Credit Hours (0,21)

Upon completion of the didactic, practical and clinical components of the Paramedic Technology Program, the student in this field internship will be provided with the opportunity to synthesize and apply acquired knowledge, values and skills necessary for the practice of an Emergency Paramedic to real life scenarios in the pre-hospital setting. This internship will also provide the student with an opportunity to critically analyze the thoroughness and effectiveness of care provided, while developing and implementing team leadership skills and critical thinking skills that foster the ability to provide safe and efficient patient care.

Prerequisite(s): Completion of all general education credits and EMED core curriculum courses

Corequisite(s): EMED301

EMED 490 Ind Study Emergency Medicine 1-3 Credit Hours (1-3,0)

This may take the form of either a research project or a program of directed reading on a specific subject. One to three credits over a period of one or two semesters may be granted according to the nature of the student's project. May be repeated up to six credits.

Prerequisite(s): Permission of Instructor