Emergency Medical Services (EMS)

An Associate of Science degree in Paramedic Science, a Paramedic Science Academic Certificate, and a Bachelor of Science degree in Health Sciences: Emergency Medical Services Concentration are all available to the student in this area. Additionally, the Community Paramedic Academic Certificate program is available to licensed or certified paramedics.

Educational Goal:
Develop an Emergency Medical Services Professional who is well prepared for the challenges of the 21st century.

These degrees are intended for students interested in a career in pre-hospital medicine and EMS education and management. As the field of EMS continues to grow and change, leaders and educators with a background in emergency medicine are needed to help shape the future of pre-hospital medicine and healthcare. This program is designed to prepare students for the clinical and administrative challenges of a career in Emergency Medical Services and healthcare.

Paramedic Science Program

An Associate of Science degree in Paramedic Science and an Academic Certificate are offered at the ISU-Meridian Health Science Center. This program will provide students with the skills and knowledge to:

1. Provide care to patients in and out of the hospital setting.
2. Prevent and reduce mortality and morbidity due to illness and injury through patient assessments and the provision of medical care.

Graduates of the program will also provide public education and health promotion, and participate in injury and illness prevention programs. They will function as facilitators of access to care, as well as initial treatment providers.

The objective of the Associate of Science in Paramedic Science is to prepare Emergency Medical Technicians with the opportunity to attain an Associate of Science degree in the paramedic profession. This degree will provide employment and additional educational opportunities for the student to become a registered, certified paramedic and work in the paramedic field in Idaho as well as surrounding states.

The Paramedic Program curriculum consists of a pre-professional year followed by three semesters of lecture, laboratory, and clinical field experience, including a three-month field internship. Students who earn the Associate of Science degree are qualified to take the EMT-P examination through the National Registry of Emergency Medical Technicians.

Community Paramedic Academic Certificate

The Academic Certificate in Community Paramedics is offered by the Emergency Services Department under the School of Health Professions. This academic certificate meets the needs of licensed paramedics who wish to pursue an additional certification which will allow them to work in the emerging field of community paramedics. Community Paramedicine is an expanding specialty that has increased across the nation in response to the Affordable Care Act. Paramedics who successfully complete this certificate will be eligible to assume a position as a Community Paramedic and assist in the development and implementation of a Community Paramedic program within their community.

Community Paramedics work in collaboration with local public health agencies, primary care and specialty care providers by assessing and evaluating community services and systems in order to identify gaps in healthcare services in both urban and rural, medically underserved communities. Community Paramedics work as part of a multidisciplinary team that includes physicians, nurses, social workers, discharge planners, pharmacists and other members of the healthcare team. Community Paramedics help individuals and communities overcome barriers that prevent them from accessing and benefiting from healthcare services. They serve as advocates, facilitators, liaisons, community brokers and resource coordinators. They also are direct services providers, ensuring basic and advanced levels of care appropriate to prevention, emergencies, evaluation, triage, disease management, and basic oral and mental health. The overall goal of the Community Paramedic is mentoring and empowering citizens, communities and healthcare systems to achieve positive outcomes and to reach optimal levels of wellness for everyone.

Admission to this program requires either a current Paramedic License or Certification.

Faculty

Chair
Mikitish, Mike, Program Coordinator, Paramedic Science and Emergency Management Degree Programs; Program Director, Institute of Emergency Management. B.S. 1982, University of Arizona; M.S. 1992, Boston University; M.P.A. 2005, Boise State University. (2007)

Paramedic Science Academic Certificate

Certificate Requirements

Pre-Professional Requirements:
Must be completed before acceptance into the Paramedic Science program. Please contact the program advisor or department chair http://www.isu.edu/esd/paramedics/ before applying for admission to this program and prior to registering for any courses.

Pre-Professional Training (Offered through Workforce Training)
Emergency Medical Technician Basic
CPR - Basic Life Support or CPR for Healthcare Providers

Pre-Professional Prerequisites (6 credits):
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HO 0111</td>
<td>Introduction to Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>HCA/HE 2210</td>
<td>Medical Terminology and Communication</td>
<td>2</td>
</tr>
<tr>
<td>or HO 0106</td>
<td>Medical Terminology</td>
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Core Requirements (43 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARM 2211</td>
<td>Basic ECG Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>PARM 2212</td>
<td>Paramedic Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PARM 2213</td>
<td>Paramedic Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>PARM 2213L</td>
<td>Paramedic Fundamentals Lab</td>
<td>1</td>
</tr>
<tr>
<td>PARM 2214</td>
<td>Paramedic Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>PARM 2215</td>
<td>Introduction to Paramedic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>PARM 2217L</td>
<td>Paramedic Integration I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PARM 2221</td>
<td>Medical Emergencies</td>
<td>3</td>
</tr>
<tr>
<td>PARM 2221L</td>
<td>Medical Emergencies Lab</td>
<td>1</td>
</tr>
</tbody>
</table>
Associate of Science Degree: Paramedic Science

Degree Requirements

General Education Requirements:
Students must complete a minimum of 36 credits from the General Education Objectives (http://coursecat.isu.edu/previouscatalogs/2018-19/undergraduate/academicinformation/generaleducation) to be eligible for the Associate’s degree.

Pre-Professional Requirements:
Must be completed before acceptance into the Paramedic Science program. Please contact the program advisor or department chair http://www.isu.edu/esd/paramedic/ before applying for admission to this program and prior to registering for any courses.

Pre-Professional Training (Offered through Workforce Training)
Emergency Medical Technician Basic
CPR - Basic Life Support or CPR for Healthcare Professionals

General Education Requirement:
36

Pre-Professional Prerequisites (6 credits):

HO 0111  Introduction to Anatomy and Physiology  4
HCA/HE 2210  Medical Terminology and Communication  2
or HO 0106  Medical Terminology

Core Requirements (43 credits):

PARM 2211  Basic ECG Interpretation  3
PARM 2212  Paramedic Pharmacology  3
PARM 2213  Paramedic Fundamentals  2
PARM 2213L  Paramedic Fundamentals Lab  1
PARM 2214  Paramedic Pathophysiology  3
PARM 2215  Introduction to Paramedic Medicine  3
PARM 2217L  Paramedic Integration I Lab  1
PARM 2221  Medical Emergencies  3
PARM 2221L  Medical Emergencies Lab  1
PARM 2222  Trauma Care  2
PARM 2223  Advanced Emergency Care  2
PARM 2224  Special Populations  3
PARM 2224L  Special Populations Lab  1
PARM 2225  Advanced ECG Interpretation  2
PARM 2229  Paramedic Clinical Practicum I  1
PARM 2231  Rescue Operations  2
PARM 2237L  Paramedic Integration II Lab  1

Total Credits  49

Community Paramedic Academic Certificate

CPAR 3400  Introduction to Community Paramedics  2
CPAR 3410  Introduction to Community Assessment  1
CPAR 4410  Community Assessment  2
CPAR 4420  Pathophysiology for the Community Paramedic  1
CPAR 4440  Community Paramedic Clinical Practicum  3

Total Credits  85

Bachelor of Science in Health Science: EMS Concentration

Concentration 4: Emergency Medical Services (EMS)

This concentration will prepare students for the challenges of becoming Emergency Medical Services health care professionals in a time of increasing growth in the profession, expanding roles, and competing priorities. This baccalaureate degree is designed to provide Paramedic Associate of Science degree graduates the opportunity to pursue a Bachelor of Science (BS) degree in health sciences and satisfy many of the prerequisites for a variety of health science-related graduate programs. This concentration has four tracks to choose from: Leadership/Management, Clinical, Education, and Community Paramedic. Choosing a specific track will prepare students to enter those types of assignments within the Emergency Medical Services profession. For more information, see http://www.isu.edu/esd/ems/.

EMS Concentration Requirements:

Associate of Science in Paramedic Science  90
BS in Health Science Core  20-24
Recommended courses within the Core:  3
HCA 4475  Health Law and Bioethics (Professional/Diversity Competency)
ECON 3303  Economics of Health Care (Health Care Competency)
ENGL 3307  Professional and Technical Writing (Communications Competency)

Emergency Medical Services Concentration  18-21

Required Courses (9-12 credits):
EMS 3300  Emergency Medical Services Operations and Management
EMS 3335  Emergency Medical Services Administration
EMS 4409  Emergency Medical Services Internship

Electives (minimum of 9 credits):  4
Select elective credits from one of the tracks in the following table.
Total  122
(minimum)

Leadership Management Track  5
EMS 3310  Development and Strategic Planning  3
EMS 3320  Disaster Response Planning and Management  3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HCA 2215</td>
<td>Healthcare Leadership</td>
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<tr>
<td>HCA 3340</td>
<td>Healthcare Policy</td>
<td>3</td>
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<tr>
<td>HCA 3384</td>
<td>Human Resource Management in Healthcare Organizations</td>
<td>3</td>
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<tr>
<td>HCA 4453</td>
<td>Healthcare Finance</td>
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<td>HCA 4465</td>
<td>Healthcare Operations and Quality</td>
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<td>HCA 4475</td>
<td>Health Law and Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>HE 2221</td>
<td>Introduction to Community and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>HE 4410</td>
<td>Health Behavior Change Theory and Application</td>
<td>3</td>
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<td>HE 4420</td>
<td>Health Program Planning and Implementation</td>
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<tr>
<td>ECON 3303</td>
<td>Economics of Health Care</td>
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<tr>
<td>EMGT 3301</td>
<td>Incident Command System Advanced</td>
<td>3</td>
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<tr>
<td>EMGT 3305</td>
<td>Political and Policy Basis of Emergency Management</td>
<td>3</td>
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<tr>
<td>EMGT 3307</td>
<td>Social Dimensions of Disaster</td>
<td>3</td>
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<tr>
<td>EMGT 3308</td>
<td>Leading in Organizations</td>
<td>3</td>
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<tr>
<td>EMGT 4420</td>
<td>Legal Issues in Emergency Management</td>
<td>3</td>
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<tr>
<td>EMGT 4421</td>
<td>Public Health Preparedness</td>
<td>3</td>
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<td>FSA 3331</td>
<td>Community Risk Reduction for Fire and Emergency Services</td>
<td>3</td>
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<tr>
<td>MGT 3312</td>
<td>Individual and Organizational Behavior</td>
<td>3</td>
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<td>BIOL 2221 &amp; 2221L</td>
<td>Introductory Microbiology and Introductory Microbiology Laboratory</td>
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<td>or BIOL 2235 &amp; 2235L</td>
<td>General Microbiology and General Microbiology Lab</td>
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<tr>
<td>BIOL 3305</td>
<td>Introduction to Pathobiology</td>
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<td>BIOL 4432 or BIOL 4445</td>
<td>Biochemistry</td>
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<td>CHEM 1111 &amp; 1111L</td>
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<td>CHEM 1112 &amp; 1112L</td>
<td>General Chemistry II and General Chemistry II Lab</td>
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<td>CHEM 3301 &amp; CHEM 3303</td>
<td>Organic Chemistry I and Organic Chemistry Laboratory I</td>
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<td>PSYC 3301</td>
<td>Abnormal Psychology I</td>
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<td>Development and Strategic Planning</td>
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<td>HCA 4465</td>
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<td>Introduction to Community and Public Health</td>
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<tr>
<td>HE 3340</td>
<td>Fitness and Wellness Programs</td>
<td>3</td>
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<td>HE 3342</td>
<td>Stress and Emotional Health</td>
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<td>HE 3383</td>
<td>Epidemiology</td>
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<tr>
<td>HE 4410</td>
<td>Health Behavior Change Theory and Application</td>
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<td>HE 4420</td>
<td>Health Program Planning and Implementation</td>
<td>3</td>
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<td>HE 4432</td>
<td>Community and Public Health</td>
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<td>HE 4435</td>
<td>Health Program Evaluation and Research</td>
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<td>EMGT 3307</td>
<td>Social Dimensions of Disaster</td>
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<td>EMGT 4421</td>
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<td>3</td>
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<tr>
<td>MGT 3312</td>
<td>Individual and Organizational Behavior</td>
<td>3</td>
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<td>CPAR 3400</td>
<td>Introduction to Community Paramedics</td>
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<td>CPAR 3410</td>
<td>Introduction to Community Assessment</td>
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<tr>
<td>CPAR 4410</td>
<td>Community Assessment</td>
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<tr>
<td>CPAR 4420</td>
<td>Pathophysiology for the Community Paramedic</td>
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</tr>
<tr>
<td>CPAR 4440</td>
<td>Community Paramedic Clinical Practicum</td>
<td>3</td>
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</tbody>
</table>

1. Students must be a graduate of or be enrolled in a health related program that awards an associate degree in Paramedic Science. Students with an Associate of Applied Science Degree in Paramedic Science may transfer up to a maximum of 50 credits from this degree (all lower division credits).
2. Only 14 credits are needed from the BS in Health Science Core if BIOL 3301 and HCA 2210/HE 2210 were completed during the Associate of Science degree.
Community Paramedics Courses

CPAR 3398 Special Topics: 1-3 semester hours.
Addresses the special needs of the industry, enabling students to upgrade technical skills that are not included in the current program curriculum. Examines and analyzes selected topics in Community Paramedics. PREREQ: Paramedic license or certification. D

CPAR 3399 Experimental Course: 1-6 semester hours.
This is an experimental course. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times with the same title and content.

CPAR 3400 Introduction to Community Paramedics: 2 semester hours.
Outlines various aspects of a Community Paramedic program, including the role of the CP within the healthcare team, communication skills, the Patient Care Centered Home and the societal, financial and cultural factors influencing healthcare. D

CPAR 3410 Introduction to Community Assessment: 1 semester hour.
Introduces the concepts of a community needs assessment and healthcare gap analysis; while identifying future local Community Paramedic clinical sites, partnerships and stakeholders. PREREQ: Paramedic License or Certification. D

CPAR 4410 Community Assessment: 2 semester hours.
Guides the student through the process of a community needs assessment. The student shall complete a gap analysis in their home community and create an effective resource map based upon their findings. PREREQ: Paramedic License or Certification. D

CPAR 4420 Pathophysiology for the Community Paramedic: 1 semester hour.
Expands on the pathological conditions of chronic conditions most commonly encountered in a primary care or hospital discharge perspective. PREREQ: Paramedic License or Certification. D

CPAR 4440 Community Paramedic Clinical Practicum: 3 semester hours.
Provides clinical experience opportunities which may include private practice, sub-acute specialties, mental health, home and public health. May include a portion of time in simulated laboratory sessions. PREREQ: Paramedic License or Certification. D

CPAR 4498 Special Topics: 1-3 semester hours.
Addresses the special needs of the industry, enabling students to upgrade technical skills that are not included in the current program curriculum. Examines and analyzes selected topics in Community Paramedics. Equivalent to EMS 4498. PREREQ: Paramedic License or Certification. D

CPAR 4499 Experimental Course: 1-6 semester hours.
This is an experimental course. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times with the same title and content.

Emergency Medical Services Courses

EMS 3300 Emergency Medical Services Operations and Management: 3 semester hours.
Principles of personnel management and process that contribute to the effectiveness of an EMS organization. Topics include human resource management, resource allocation, and procurement policy. D

EMS 3310 Development and Strategic Planning: 3 semester hours.
Students will learn the strategic planning process to include the objectives, purpose of goals and major policies, and plans for achieving those goals within the different EMS settings. D

EMS 3320 Disaster Response Planning and Management: 3 semester hours.
Planning for and management of multiple-casualty incidents in the pre-hospital and hospital environment, including development of response plans, triage, medical evacuation procedures, communications, roles of governmental and the private sector, terrorism, and medical care for mass gatherings. D

EMS 3335 Emergency Medical Services Administration: 3 semester hours.
An overview of the management of emergency medical services including organization, budget determination, purchasing, and communication. Emphasis on directing and delegation of decision making including managing stress. Equivalent to FSA 3335. D

EMS 3398 Special Topics: 1-3 semester hours.
Addresses the special needs of the industry, enabling students to upgrade technical skills that are not included in the current program curriculum. Examines and analyzes selected topics in Community Paramedics. PREREQ: Paramedic License or Certification. D

EMS 3399 Experimental Course: 1-6 semester hours.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

EMS 4409 Emergency Medical Services Internship: 3 semester hours.
In this course, students complete supervised experience divided into two or more of the following EMS concentrations: operations management, systems implementation, regulation, legislation, and product research and development. PREREQ: Permission of the instructor. D

EMS 4498 Special Topics: 1-3 semester hours.
Addresses the special needs of the industry, enabling students to upgrade technical skills that are not included in the current program curriculum. Examines and analyzes selected topics in Community Paramedics. PREREQ: Paramedic License or Certification. D

EMS 4499 Experimental Course: 1-6 semester hours.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

Paramedic Science Courses

PARM 2211 Basic ECG Interpretation: 3 semester hours.
Introductory ECG course. Anatomy and physiology of the conduction system of the heart, the electrical system, electrocardiography, abnormal ECG patterns and distinguishing between life-threatening and non-life-threatening dysrhythmias. Introduction to dysrhythmia management. PREREQ: Acceptance into Paramedic program or permission of instructor. F
PARM 2212 Paramedic Pharmacology: 3 semester hours.
Fundamental, drug-class oriented course that focuses on the pharmacodynamics and pharmacoekinetics of drug therapy, drug calculations, and the pharmaceutical interventions of common EMS medications. Roles, and ethical considerations of drug administration. COREQ: PARM 2213, PARM 2213L, and PARM 2217L. F

PARM 2213 Paramedic Fundamentals: 2 semester hours.
Basic patient assessment concepts, review of basic airway management, and introduction to advanced airway management/ventilation, intravenous skills, and medication administration via enteral and and parenteral routes. COREQ: PARM 2212, PARM 2213L, and PARM 2217L. F

PARM 2213L Paramedic Fundamentals Lab: 1 semester hour.
Focus on BLS and ALS airway management as well as intravenous cannulation, medication administration, and drug calculations. Graded S/U. COREQ: PARM 2212, PARM 2213, and PARM 2217L. F

PARM 2214 Paramedic Pathophysiology: 3 semester hours.
Correlative approach to pathophysiology, applying both physical assessment skills and basic cellular understanding to the various disease entities and trauma processes encountered in emergency medicine. PREREQ: Acceptance into Paramedic program or permission of instructor. F

PARM 2215 Introduction to Paramedic Medicine: 3 semester hours.
Interactive presentation and discussion of foundational aspects of EMS within the healthcare system. Includes ethics, medical-legal issues, roles and responsibilities of the paramedic, healthcare policy, and the role of research within EMS. PREREQ: Acceptance into Paramedic program. F

PARM 2217L Paramedic Integration I Lab: 1 semester hour.
Designed to teach, integrate and complement content from concurrent Paramedic lecture courses as well as reinforce assessment and therapeutic communication techniques while reviewing and assessing skills learned from concurrent and prior EMS coursework. COREQ: PARM 2212, PARM 2213, and PARM 2213L.
Graded S/U. F

PARM 2221 Medical Emergencies: 3 semester hours.
Recognition, assessment, and treatment of medical diseases involving cardiac, respiratory, neurologic, endocrine, abdominal, hematologic, behavioral disorders, toxicology and renal systems. Includes ACLS. COREQ: PARM 2221L.
PREREQ: PARM 2211, PARM 2212, PARM 2213, PARM 2213L, and PARM 2215, and acceptance into Paramedic program or permission of instructor. S

PARM 2221L Medical Emergencies Lab: 1 semester hour.
Reinforces and integrates the recognition and treatment of medical diseases as taught in PARM 2221. Skill modalities include pharmacological interventions, ECG interpretation, basic and advanced airway interventions, patient assessment, patient management, and decision-making. Graded S/U. COREQ: PARM 2221. S

PARM 2222 Trauma Care: 2 semester hours.
A comprehensive approach to assessment, injury recognition, and management of the trauma patient. An introduction of trauma systems, injury prevention, kinematics and aeromedical use and integration. Includes PHTLS. PREREQ: PARM 2213, PARM 2213L, PARM 2214, and acceptance into Paramedic program or permission of instructor. S

PARM 2223 Advanced Emergency Care: 2 semester hours.
Combined lecture/lab course focuses on the instruction and integration of skills associated with advanced airway management, renal dialysis, venous access, and pharmacological delivery systems. PREREQ: PARM 2213 and PARM 2213L, and acceptance into Paramedic program or permission of instructor. S

PARM 2224 Special Populations: 3 semester hours.
A comprehensive approach to obstetrics and gynecology, including the pediatric patient from birth to adolescence. Includes introduction to gerontology - to address issues such as lifespan development, cultural diversity, polypharmacy, pathological changes, and treatment variations associated with an aging population. Includes PALS. COREQ: PARM 2224L. PREREQ: Acceptance into Paramedic program or permission of instructor. S

PARM 2224L Special Populations Lab: 1 semester hour.
Reinforces and integrates the recognition and treatment of medical diseases as taught in PARM 2224. Skill modalities include pharmacological intervention, ECG interpretation, basic and advanced airway interventions, patient assessment, patient management, and decision-making. Graded S/U. COREQ: PARM 2224. S

PARM 2225 Advanced ECG Interpretation: 2 semester hours.
An introductory 12-lead ECG interpretation course. Topics include intraventricular conduction delays, myocardial ischemia, injury and infarction, axis deviation, syndrome bundle branch blocks, ectopy, and advanced dysrhythmia interpretation. PREREQ: PARM 2211 or permission of instructor. S

PARM 2229 Paramedic Clinical Practicum I: 1 semester hour.
Student rotations through various departments in hospitals, performing paramedic skills under the direct supervision of the clinical instructor and/or assigned clinical preceptors. Skills performed include all those learned in previous coursework. Graded S/U. PREREQ: Acceptance into Paramedic program or permission of instructor. S

PARM 2231 Rescue Operations: 2 semester hours.
An introductory course to include: ambulance operations, rescue and extrication techniques, incident command and hazardous materials. The accompany laboratory portion may be taught in seminar format as necessary. PREREQ: Acceptance into Paramedic program or permission of instructor. Su

PARM 2237L Paramedic Integration II Lab: 1 semester hour.
Designed to teach, integrate, and complement content from previous Paramedic lecture and laboratory courses. Previously-learned material is reviewed, reinforced, and evaluated as necessary to maintain competency. Graded S/U. PREREQ: PARM 2217L, PARM 2221, PARM 2222, and PARM 2223. Su

PARM 2239 Paramedic Clinical Practicum II: 3 semester hours.
Supports the didactic elements of the Paramedic course. Rotations at various clinical settings including ED, OR, ICU/CCU, Crisis Intervention/Psychiatry and EMS ride-alongs with EMS/fire agencies. In addition, students complete an ACLS Provider course. Other clinical site rotations may be added or substituted as determined by the program. Graded S/U. PREREQ: PARM 2229 and acceptance into Paramedic program or permission of instructor. Su

PARM 2249 Paramedic Field Practicum II: 6 semester hours.
Capstone course for the student to apply/demonstrate the knowledge/skills learned in the program on an EMS unit. Student is under the direct supervision of an approved preceptor and is required to demonstrate competence as a team leader performing patient assessment skills and formulating a proper treatment plan for situations encountered. Mandatory benchmarks are required. Graded S/U. PREREQ: PARM 2231, PARM 2237L, and PARM 2239, and acceptance into Paramedic program or permission of instructor. F

PARM 2296 Independent Studies: 1-8 semester hours.
Addresses specific needs of individuals for the enhancement of knowledge and skills within the program area under the guidance of an instructor. May be repeated. Graded S/U or may be letter graded. PREREQ: Permission of instructor. D

PARM 2298 Special Topics: 1-8 semester hours.
Addresses the specific needs of industry, enabling students to upgrade technical skills that are not included in the current program curriculum. May be repeated. Graded S/U or may be letter-graded. PREREQ: Permission of instructor. D