Emergency Medical Services (EMS)

EMS 1110. Emergency Medical Technician-Intro to Emergency Medical Services. 5 Hours.
Present instruction in the theory and practice of first aid, providing students with knowledge and skills necessary to meet common emergencies associated with injury and illness. Topics include CPR, well-being, roles and responsibilities, medical/legal, ethics, lifting & moving, Pt assessment, Airway management, Packaging, bandage/splint, Hazardous Materials, Triage & Terrorism, Mass Casualty Incidents, and disaster management. All co-requisite courses must be completed in the same semester. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful completion of this course, students will be able to: 1. Differentiate effective time management abilities in providing patient care. 2. Illustrate reasonable critical thinking skills in treating mock patients. 3. Devise a leadership/management plan for scene management and patient care. 4. Illustrate proper communication techniques in patient care, including a diverse patient grouping. 5. Survey constructive feedback for areas of personal improvement. Corequisites: EMS 1120, EMS 1140, EMS 1145. FA, SP.

EMS 1120. Emergency Medical Technician Practicum. 1.5 Hour.
Two 12 hour clinical rotation shifts are required at a contracted clinical site. Hours can be completed in the Hospital Emergency Department or an Ambulance service. The clinical rotation provides hands-on education with an assigned preceptor in a real life situation. All co-requisite courses must be completed in the same semester. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate mastery of basic life support, knowledge of Emergency Medical Technician protocols, vital signs interpretation, skills and affective abilities. 2. Integrate EMT protocols and skills into effective patient care. 3. Produce proof of understanding and use of skills performed by the emergency medical technician. 4. Apply evidence based practice under EMT scope. Corequisites: EMS 1110, EMS 1140, EMS 1145. FA, SP.

EMS 1140. Emergency Medical Technician Patient Management. 5 Hours.
Includes basic knowledge and skills necessary to provide basic patient management and transportation. Topics include Cardiac emergency management, respiratory emergencies, endocrine emergencies, allergies & anaphylaxis, bone and joint injuries, dressings and bandages, sudden illness, and emergency childbirth. Successful completion and recommendation from program coordinator and medical director will provide eligibility for testing and certification at the National Registry of Emergency Medical Technician (NREM) EMT level. Upon successful completion of the NREM certification, students are eligible for licensure from the Utah Bureau of Emergency Medical Services at the EMT level. All co-requisite courses must be completed in the same semester. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Differentiate effective time management abilities in providing patient care. 2. Illustrate reasonable critical thinking skills in treating mock patients. 3. Devise a leadership/management plan for scene management and patient care. 4. Illustrate proper communication techniques in patient care, including a diverse patient grouping. 5. Survey constructive feedback for areas of personal improvement. Corequisites: EMS 1110, EMS 1140, EMS 1145. FA, SP.

EMS 1145. Emergency Medical Technician Lab. 2.5 Hours.
Emergency Medical Technician lab will provide practical learn of skills and National Registry competencies. These competencies include patient assessment, patient history taking, basic airway adjuncts, airway management, insertion of Nasopharyngeal Airway/Oropharyngeal airway (NPA/OPA), basic vital signs, patient assisted medications, suctioning, bandaging, splinting, lifting and moving patients, extraction of patients from cars, home, office, and other various locations. Students are required to complete an 8 station practical exam. Upon successful completion, students may be recommended for testing and licensure at the Emergency Medical Technician (EMT) level. All co-requisite courses must be completed in the same semester. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate effective time management abilities in providing patient care. 2. Illustrate reasonable critical thinking skills in treating mock patients. 3. Devise a leadership/management plan for scene management and patient care. 4. Illustrate proper communication techniques in patient care, including a diverse patient grouping. 5. Survey constructive feedback for areas of personal improvement. Corequisites: EMS 1110, EMS 1120, EMS 1145. FA, SP.

EMS 1210. Introduction to Advanced Emergency Medical Technician (AEMT). 5 Hours.
Includes basic knowledge and skills necessary to provide basic and limited advanced patient care and transportation. Includes interventions with basic and advanced equipment typically found in an ambulance, IV insertion, medication administration, advanced airway management, and advanced cardiac resuscitation procedures with the goal of producing competent entry level AEMTs to serve in career and volunteer positions within the EMS system. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Differentiate effective time management abilities in providing patient care appropriate to the AEMT. 2. Illustrate reasonable appropriate AEMT critical thinking skills in treating mock patients. 3. Devise a leadership/management plan for scene management and patient care. 4. Illustrate proper communication techniques in patient care, including a diverse patient grouping. 5. Survey constructive feedback for areas of personal improvement. Course fee required. Prerequisites: Current EMT Certification or EMS 1110 and EMS 1120 and EMS 1140 and EMS 1145 (All grade C or higher). Corequisites: EMS 1220, EMS 1240 and EMS 1245. FA.
EMS 1220. Advanced Emergency Medical Technician Practicum. 2 Hours.
Open to students who have a current EMT certification. Two A 12 hour clinical rotation shifts are shift is required at a contracted clinical site. Hours can be completed in the Hospital Emergency Department or an Ambulance service. The clinical rotation provides hands-on education with an assigned preceptor in a real life situation. All co-requisite courses must be completed in the same semester. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Complete a minimum of 24 hours in an approved ambulance agency or Hospital Emergency Department. 2. Demonstrate mastery of basic life support, knowledge of Emergency Medical Technician protocols, vital signs interpretation, skills and affective abilities. 3. Integrate AEMT protocols and skills into effective patient care. 4. Demonstrate understanding and application of skills performed by the advanced emergency medical technician. 5. Apply evidence-based practice under AEMT scope. Course fee required. Prerequisites: Current EMT Certification or EMS 1110 and EMS 1120 and EMS 1140 and EMS 1145 (All grade C or higher). Corequisites: EMS 1210, EMS 1240 and EMS 1245. FA, SP.

EMS 1240. Advanced Patient Management. 5 Hours.
Includes advanced knowledge and skills necessary to provide advanced patient management and transportation. Topics include advanced skill in Cardiac emergency management, respiratory emergencies, endocrine emergencies, allergies & anaphylaxis, bone and joint injuries, dressings and bandages, sudden illness, and emergency childbirth. Successful completion and recommendation from program coordinator and medical director will provide eligibility for testing and certification at the National Registry of Emergency Medical Technician (NREMT) AEMT level. Upon successful completion of the NREMT certification, students are eligible for licensure from the Utah Bureau of Emergency Medical Services at the AEMT level. All co-requisite courses must be completed in the same semester. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Differentiate effective time management abilities in providing advanced patient care. 2. Illustrate reasonable critical thinking skills in treating mock patients as appropriate for the AEMT. 3. Devise a leadership/management plan for scene management and patient care appropriate for the AEMT. 4. Illustrate proper communication techniques in patient care, including a diverse patient grouping. 5. Survey constructive feedback for areas of personal improvement. Course fee required. Prerequisites: Current EMT Certification or EMS 1110 and EMS 1120 and EMS 1140 and EMS 1145 (All grade C or higher). Corequisites: EMS 1210, EMS 1220, EMS 1245. FA.

EMS 1245. Advance Emergency Medical Technician Lab. 2.5 Hours.
Open to students who have a current EMT certification and admitted to AEMT certificate program. Course includes laboratory training in but not limited to advance cardiac life support, advance airway management, intravenous insertion and maintenance, intraosseous insertion, advanced trauma life support and medication administration. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate effective mastery and application of AEMT competencies including patient assessment, patient history taking, advance cardiac life support, advance airway management, intravenous insertion and maintenance, intraosseous insertion, advanced trauma life support and medication administration. 2. Illustrate AEMT appropriate critical thinking skills in treating mock patients. 3. Prepare and implement a leadership/management plan for scene management and patient care. 4. Illustrate AEMT appropriate communication techniques in patient care, including a diverse patient grouping. 5. Survey constructive feedback for areas of personal improvement. Course fee required. Prerequisites: Current EMT Certification or EMS 1110 and EMS 1120 and EMS 1140 and EMS 1145 (All grade C or higher). Corequisites: EMS 1210, EMS 1220, and EMS 1240. FA.

EMS 2101. Introduction to Paramedicine. 2 Hours.
Emphasizes concepts in anatomy, physiology, pathophysiology, and EMS operations; and critical decision making skills transitioning from EMT/AEMT to Paramedic. Introduces advanced concepts in complex medical, legal, and ethical issues. Identifies health and wellness considerations for the paramedic. Lecture and lab course. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Discriminate between normal and abnormal anatomy and physiology, and distinguish these characteristics as they relate to pathophysiology. 2. Interpret complex medical, legal, and ethical issues in EMS. 3. Outline factors that impact the health and wellness of the paramedic, and correlates these with behaviors that promote a culture of safety. 4. Diagram the Incident Command Structure (ICS) and explain concepts of interdisciplinary roles in various EMS incidents. 5. Explain fundamental principles of public health, health promotion, and illness and injury prevention. Prerequisite: Admission to the DSU Paramedic Program. Corequisites: EMS 2201, EMS 2301, EMS 2401, EMS 2420, and EMS 2450. FA.

EMS 2200. Paramedic Training I (ALPP). 7.5 Hours.
First semester course. The first of 5 paramedic courses includes lecture, laboratory, and clinical training in topics such as EMS communications, wellbeing of the paramedic, medical and legal responsibilities, pharmacology, pathophysiology, history taking, ventilatory management, suctioning, manual maneuvers, IV therapy, sterile techniques, IV medications/administration, and patient assessment. This course is designated as an Active Learning Professional Practice (ALPP) course. This course allows students to explore and apply content learned in the course in a professional experience away from the classroom. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Describe the effects of EMS experiences on the wellbeing of the paramedic. 2. Communicate the concepts of pharmacology, pathophysiology, history taking, ventilator management, sterile techniques and medication administration. 3. Explain and apply content learned in a professional experience away from the classroom. Course fee required. Prerequisite: Admission to the Dixie State University Paramedic degree or certificate program. SP.
EMS 2201. Paramedic: Communications; Cardiovascular, Respiratory, and Pediatric Emergencies. 3 Hours.
Emphasizes concepts and critical decision making skills transitioning from EMT/AEMT to Paramedic. Reinforces concepts in interdisciplinary communications and documentation. Focuses on advanced cardiovascular, respiratory, and pediatric emergencies, and airway management. Lecture and lab course. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Distinguish patient assessment findings to determine whether basic or advanced life support intervention(s) is/are indicated. 2. Apply various communication skills with patients, families, and interdisciplinary professionals. 3. Demonstrate a cardiovascular, respiratory, and pediatric patient assessment and properly document findings. 4. Integrate evidenced-based practices and critical decision making skills in cardiovascular, respiratory, and pediatric concepts. 5. Construct an assessment-based management plan for pediatric, cardiovascular, and respiratory emergencies. Course fee required. Prerequisites: Admission to the DSU Paramedic Program. Corequisites: EMS 2101, EMS 2301, EMS 2401, EMS 2420, AND EMS 2450. FA.

EMS 2300. Paramedic Training II (ALPP). 7.5 Hours.
First semester course. Open to students who have had the EMT certificate for at least 1 year. The first of 5 paramedic courses which includes lecture, laboratory, and clinical training in topics such as EMS communications, wellbeing of the paramedic, medical and legal responsibilities, pharmacology, pathophysiology, history taking, advanced ventilatory management, bag valve mask, mouth to mask, mouth to mouth/nose, ET insertion, EOA insertion, NPA insertion, OPA insertion, suctioning, manual maneuvers, IV therapy/sterile techniques, IV medications and their administration, and patient assessment. This course is designated as an Active Learning Professional Practice (ALPP) course. This course allows students to explore and apply content learned in the course in a professional experience away from the classroom. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate EMS communication skills including history taking, manual maneuvers, patient assessment. 2. Provide IV therapy/sterile technique IV medication administration and ET insertion. 3. Earn certification in ACLS and PEPP. Prerequisite: Admission to the Dixie State University Paramedic Certificate program. SP.

EMS 2301. Pharmacology and ACLS/PEPP Certification Courses. 3 Hours.
Provides advanced concepts of pharmacodynamics including pharmacokinetics for paramedics. Emphasis is placed on assessment-based findings, therapeutic communication, critical decision making skills relating to appropriate pharmaceutical interventions. A focus on safety, accountability, and evidence-based practices for diverse patients in various clinical settings. Certifications for Advanced Cardiac Life Support (ACLS) and Pediatric Education for the Prehospital Professional (PEPP) are included in this course. Lecture and lab course. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Utilize critical decision making skills in incorporating the mechanism of action, indications, contraindications and cautions, common adverse effects, and clinically important drug-drug interactions using evidence-based practices while administering medications. 2. Demonstrate a patient assessment, organize findings, for assessment-based management to provide appropriate pharmacological interventions. 3. Identify proper IV site administration, correct aseptic technique, and appropriate documentation. 4. Evaluate effects of medication administration, anticipate needs for further pharmacological intervention, and provide appropriate documentation. 5. Test and successfully certify as an ACLS and PEPP Provider. Course fee required. Prerequisites: Admission to the DSU Paramedics program. Corequisites: EMS 2101, EMS 2201, EMS 2401, EMS 2420, and EMS 2450. FA.

EMS 2400. Paramedic Training III. 8 Hours.
Second semester course. Includes lecture, laboratory, and clinical training in topics such as advanced pediatric management, OB/GYN emergencies, cold weather rescue, environmental emergencies, neurology, endocrinology, gastroenterology, pulmonary emergencies, cricothyotomy, chest venting, external jugular cannulation, toxicology, hematology, nasogastric tube insertion, and Foley catheter insertion. This course is designated as an Active Learning Professional Practice (ALPP) course. This course allows students to explore and apply content learned in the course in a professional experience away from the classroom. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Describe advanced pediatric management, OB/GYN emergencies, environmental emergencies. 2. Perform cricothyotomy, chest venting, external jugular cannulation, toxicology, hematology, nasogastric tube insertion. 3. Verbalize the process for trauma assessment. Course fee required. Prerequisite: Admission to the Dixie State University Paramedic degree or certificate program. SU.

EMS 2401. Trauma Assessment and Management. 3 Hours.
Emphasizes concepts in trauma and critical decision making skills transitioning from EMT/AEMT to Paramedic. Introduces advanced concepts in Trauma Management, including mechanism of injury, multi-system trauma, chest and abdominal trauma. Identifies advanced patient assessment and management of these emergencies. Lecture and lab course. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Illustrate how multisystem trauma and Mechanism of Injury (MOI) relate to patient assessment and scene management. 2. Differentiate the pathophysiology, assessment and management of lung injuries, myocardial injuries, vascular injuries, and other chest related injuries. 3. Integrate the pathophysiology, assessment, and management of abdominal trauma. 4. Analyze advanced patient assessment findings and formulate management of these emergencies within the paramedic scope of practice. Course fee required. Prerequisites: Admission to the DSU Paramedics program. Corequisites: EMS 2101, EMS 2201, EMS 2301, EMS 2420, and EMS 2450. FA.

EMS 2420. Paramedic Clinical I. 1 Hour.
Provides the student with the opportunity to perform previously learned skills and apply knowledge of paramedic practice, supervised in a clinical setting. Includes, but is not limited to, areas in acute neurology and cardiac care. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Differentiate assessment findings of neurologic patients with those found in normal human physiology. 2. Compare neurological assessment details in acute versus chronic pathophysiology. 3. Administer 12 lead EKG’s to patients in the acute setting. Course fee required. Prerequisites: Admission to the DSU Paramedics program. Corequisites: EMS 2101, EMS 2201, EMS 2301, EMS 2401, and EMS 2450. FA.
EMS 2450. Paramedic Field I. 3 Hours.
Provides the student with the opportunity to perform skills and apply knowledge of paramedic practice including: patient assessment, pharmacology, airway and respiratory emergencies, trauma and cardiovascular management. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate a comprehensive patient assessment including detailed physical exam and patient history. 2. Devise a patient care plan based on assessment findings. 3. Distinguish the need for basic versus advanced airway interventions. 4. Recommend specific basic and advanced life support interventions in the trauma patient. 5. Order appropriate pharmacologic interventions based on patient presentation and assessment findings. Course fee required. Prerequisites: Admission to the DSU Paramedics program. Corequisites: EMS 2101, EMS 2201, EMS 2301, EMS 2401, and EMS 2420. FA.

EMS 2500. Paramedic Training IV. 8 Hours.
This course is designated as an Active Learning Professional Practice (ALPP) course. This course allows students to explore and apply content learned in the course in a professional experience away from the classroom. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful completion of this course, students will be able to: 1. Demonstrate competency in field activities which includes spinal immobilization of the lying and sitting patients, chest needle decompression, IV/ Bolus/Piggy Back medications, bleeding, wound care, shock, long bone splinting, head/face trauma, thoracic trauma, abdominal trauma, ventilatory management, dynamic cardiologic, static cardiologic, and extrication, mass casualty management, abuse and neglect, crime scene awareness, and hazardous materials. 2. Earn PHTLS certification upon completion of the course. Prerequisite: Admission to the Dixie State University Paramedic Certificate program. SU.

EMS 2501. Medical Emergencies. 3 Hours.
Emphasizes concepts in medical emergencies; and critical decision making skills transitioning from EMT/AEMT to Paramedic. Introduces advanced concepts in toxicologic, hematologic, and immunologic emergencies. Identifies characteristics of chronic and acute or emergent endocrine abnormalities. Lecture and lab course. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Integrate the pathophysiology, assessment, and the use of critical decision-making skills in the management of abdominal emergencies. 2. Determine the immune system dysfunction during an allergic reaction or anaphylaxis and using assessment-based management identify the appropriate interventions. 3. Differentiate the characteristics and treatment of acute versus chronic endocrine emergencies. 4. Assess signs, symptoms, and the related management of a toxicologic, hematologic, and immunologic emergencies. 5. Discriminate between chronic and acute neurologic emergencies, and formulate a treatment plan based on evidence-based practice. Course fee required. Prerequisites: EMS 2101, EMS 2201, 2301, 2401, 2420, and 2450 (All grade B or higher). Corequisites: EMS 2601, EMS 2701, EMS 2720, and EMS 2750. SP.

EMS 2600. Paramedic Training V. 12 Hours.
This course is designated as an Active Learning Professional Practice (ALPP) course. This course allows students to explore and apply content learned in the course in a professional experience away from the classroom. This course requires a Differential Tuition Rate which is an additional fee of $80 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful completion of this course, students will be able to: 1. Demonstrate competency with hands-on practice of current and previously learned skills. Includes out-of-classroom education in high angle rescue, swift water rescue, paramedic course, aeromedicine, ongoing field assessment and evaluation. 2. Earn AMLS certification upon completion of the course. 3. Exhibit preparation for state and national certification exams. Course fee required. Prerequisite: Admission to the Dixie State University Paramedic Certificate program. FA.

EMS 2601. Special Populations in Paramedicine and AMLS and PHTLS Certification. 3 Hours.
Emphasizes concepts in obstetrics and gynecology and critical decision making skills transitioning from EMT/AEMT to Paramedic. Introduces advanced concepts in neonatal care, including airway, respiratory, and circulatory considerations. Identifies evidence-based practices in managing these emergencies. Lecture and lab course. **COURSE LEARNING OUTCOMES (CLOs) At the successful completion of this course, students will be able to: 1. Compare the management of normal deliveries versus high-risk pregnancy and/or related gynecological emergencies. 2. Evaluate the pathophysiology and management of infants including neonates and newborns. 3. Demonstrate a patient assessment of an obstetric patient and organize findings for assessment-based management to provide appropriate pharmacological interventions. 4. Integrate the pathophysiology, assessment, and critical decision-making skills indicated for patients in special populations. 5. Test and successfully certify as an ACLS and PEPP Provider. Course fee required. Prerequisites: EMS 2201, EMS 2201, EMS 2301, EMS 2401, EMS 2420, and EMS 2450 (All grade B or higher). Corequisites: EMS 2501, EMS 2701, EMS 2720, and EMS 2750. SP.

EMS 2701. EMS Research and Professional Development. 3 Hours.
Emphasizes concepts in career development specific to the fire service, EMS, and related healthcare fields. Introduces concepts in research with emphasis on evidence-based practices in prehospital care. Lecture and lab course. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate interview skills specific to fire service, EMS, and healthcare settings. 2. Create a resume/CV suitable for employment in fire service, EMS, and healthcare settings. 3. Summarize research on an emerging topic in EMS. 4. Evaluate current EMS research through literature review and write a research paper on findings. 5. Design a poster displaying research findings. Course fee required. Prerequisites: EMS 2201, EMS 2201, EMS 2301, EMS 2401, EMS 2420, and EMS 2450 (All grade B or higher). Corequisites: EMS 2501, EMS 2601, EMS 2720, and EMS 2750. SU.
EMS 2820. Paramedic Clinical II. 2 Hours.
Provides the student with the opportunity to perform previously learned skills and apply knowledge of paramedic practice. Includes, but is not limited to rotations in the Pediatric Emergency Department, Adult Emergency Department, and at home visits with "high-tech kids". **COURSE LEARNING OUTCOMES (CLOs) At the successful completion of this course, students will be able to: 1. Differentiate assessment findings of critical and stable pediatric patients. 2. Distinguish between normal physiology children and pathophysiology in children with special healthcare needs. 3. Integrate basic and advanced interventions in respiratory emergencies. 4. Assess the characteristics and treatment of patients with various abdominal complaints. 5. Evaluate signs, symptoms, and the related management of neurologic emergencies. Course fee required. Prerequisites: EMS 2101, EMS 2201, EMS 2301, EMS 2401, EMS 2420, and EMS 2450 (Grade B or higher). Corequisites: EMS 2501, EMS 2601, EMS 2701 and EMS 2750. SP.

EMS 2850. Paramedic Field II. 3 Hours.
Provides the student with the opportunity to perform various skills and apply knowledge of paramedic practice including: respiratory, cardiac, neurologic, trauma, obstetric and gynecologic emergencies. **COURSE LEARNING OUTCOMES (CLOs) At the successful completion of this course, students will be able to: 1. Demonstrate a comprehensive patient assessment including detailed physical exam and patient history. 2. Devise a patient care plan for trauma patients based on assessment findings. 3. Distinguish the need for basic versus advanced interventions in trauma patients. 4. Recommend specific basic and advanced life support interventions in the medical patient. 5. Order appropriate pharmacologic interventions based on patient presentation and assessment findings. Course fee required. Prerequisites: EMS 2101, EMS 2201, EMS 2301, EMS 2401, EMS 2420, and EMS 2450 (Grade B or higher). Corequisites: EMS 2501, EMS 2601, EMS 2701, and EMS 2720. SP.

EMS 2801. National Registry Preparation and Testing. 3 Hours.
Provides scenario-based instruction and practical activities to reinforce previously learned skills and knowledge. Reinforces assessment-based management and evidence-based practice for medical and trauma patients across the lifespan. Preparation for psychomotor National Registry certification exam and testing included. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Differentiate assessment findings of critical and stable trauma patients across the lifespan. 2. Distinguish between the need for basic and advanced life support and use assessment-based management in making transport decisions. 3. Integrate critical decision-making skills with the patient's holistic needs in determining appropriate interventions. 4. Justify treatment decisions using evidence-based practice. 5. Modify treatment plans based on changes in patient's condition. Course fee required. Prerequisites: EMS 2501, EMS 2601, EMS 2701, EMS 2720, and EMS 2750 (All grade B or higher). Corequisites: EMS 2501, EMS 2601, EMS 2701, and EMS 2720. SP (odd).

EMS 2820. Paramedic Clinical III. 4 Hours.
Provides the student with the opportunity to perform previously learned skills and apply knowledge of paramedic practice. Includes, but is not limited to rotations in the Emergency Department, Trauma Center, Labor and Delivery, Operating Room, and Cath Lab. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Differentiate assessment findings of critical and stable trauma patients. 2. Distinguish between normal physiology during pregnancy and pathophysiology in abnormal pregnancy. 3. Integrate basic and advanced airway interventions in the operating room and emergency department settings. 4. Assess the characteristics and treatment of patients with various stages of heart disease. 5. Evaluate signs, symptoms, and the related management of airway emergencies. Course fee required. Prerequisites: EMS 2501, EMS 2601, EMS 2701, EMS 2720, and EMS 2750 (All grade B or higher). Corequisites: EMS 2501, EMS 2601, and EMS 2950. SU.

EMS 2850. Paramedic Field III. 3 Hours.
Provides the student with the opportunity to perform various skills and apply knowledge of paramedic practice including: advanced patient assessment, basic and advanced airway management, and assessment-based pharmacological interventions. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Facilitate a comprehensive patient assessment including detailed physical exam and patient history. 2. Formulate a patient care plan for trauma patients based on assessment findings. 3. Distinguish the need for basic versus advanced interventions in trauma patients. 4. Discriminate the need for basic and/or advanced life support interventions in the medical patient. 5. Evaluate signs, symptoms, and the related management of neurologic emergencies. Course fee required. Prerequisites: EMS 2501, EMS 2601, EMS 2701, EMS 2720, and EMS 2750 (All grade B or higher). Corequisites: EMS 2801, EMS 2850, and EMS 2950. SU.

EMS 2950. Paramedic Capstone. 3 Hours.
Provides students with the opportunity to practice as an entry-level paramedic in the role as team lead while demonstrating mastery in various skills including patient assessment, airway management, advance cardiac life support, pharmacology, and assessment-based patient management across the lifespan, in the pre-hospital setting. Prepares students for National Registry certification exam. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate exemplary professional behavior including: but not limited to,. integrity, empathy, self-motivation, appearance/personal hygiene, self confidence, communication, time management, teamwork/diplomacy, respect, patient advocacy, and careful delivery of service. 2. Perform basic and advanced interventions as as part of a treatment plan intended to mitigate emergency, provide symptom relief, and improve the overall health of the patient. 3. Evaluate the effectiveness of interventions and modify treatment plan accordingly. 4. Prepare and document assessment findings and interventions to be used for research purposes. 5. Facilitate all aspects of patient care as a team lead on 20 calls with a minimum average rating of 80% or higher on FISDAP and no more than two failures in a row. Course fee required. Prerequisites: EMS 2501, EMS 2601, EMS 2701, EMS 2720, and EMS 2750 (All grade B or higher). Corequisites: EMS 2801, EMS 2820, and EMS 2850. SU.