EMS EMERGENCY MEDICAL SERVICES

Courses

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<td>EMS.101 Emergency Medical Technician</td>
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This is an entry level course in the field of Emergency Medical Services. The course emphasizes the development of student skills in recognition of illnesses and injuries and proper procedures of emergency care. The training promotes an assessment based approach to identifying illness and injury and developing an appropriate plan of treatment within the limitations of basic life support practices, including the use of prehospital patient care and rescue equipment. The roles, responsibilities and skills required by state and national standards are defined. The student will develop skills to provide basic emergency care, communication and interpersonal relationships, handling and positioning, documentation, transportation methods, and extrication of the critically ill and injured person. This course includes 120 hours of classroom and laboratory instruction plus 16 hours of clinical in-hospital experience. Upon completion of this course students are eligible to take the Illinois EMT licensure exam. Licensure is required for employment as an EMT.

General Education – Not Applicable

EMS.110 Fundamentals of Paramedic

This course, in conjunction with Paramedic Practice 1, is designed to introduce the student to the fundamentals of paramedic services including a historical perspective of the EMS system in comparison to the current operations, the roles and responsibilities, safety and well being of the paramedic, legal issues and regulatory issues, communication and documentation, and basic patient assessment skills. This course closely integrates theory with practice, thus providing the foundational base from which the learner may develop further skills, knowledge and judgment of the paramedic.

Offered: Fall

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS and Certificates where program structure permits.

General Education – Not Applicable

EMS.112 Paramedic Pharmacology

This course provides the paramedic student with the comprehensive knowledge of emergency pharmacology, pharmacokinetics, and pharmacodynamics related to paramedic practice, includes cardiovascular, respiratory, analgesic, gastrointestinal, antibiotic and central nervous system medications. Sources of drugs, reference materials for drugs, and legal considerations will be discussed as well as classification of drugs and how each affects the respective body system. The student will gain the knowledge and psychomotor skills required to safely and precisely prepare and administer drugs that a paramedic may commonly administer according to local protocol. The student will learn proper procedures for the administration of medications, equipment needed, techniques used with various routes of administration and how to calculate drug doses utilizing mathematical principles. This course provides 32 theory hours and 16 lab hours.

Offered: Fall

Prerequisites: EMS.101 with grade of C or better and active EMT-B License.

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where program structure permits.

General Education – Not Applicable

EMS.115 Paramedic Practice 1

Paramedic Practice 1 is designed to provide the student with the opportunity to develop skills and apply didactic information from Fundamentals of Paramedic (EMS.110) and Paramedic I (EMS.112) to the clinical and field settings respectively. Paramedic Practice 1 provides the student with the opportunity to become familiar with equipment and procedures used in the profession as well develop assessment skills. The course culminates in applying skills and knowledge learned to given case studies.

Offered: Fall

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS and Certificates where applicable.

General Education – Not Applicable
This course is designed to introduce and prepare the students to develop proficiency in the roles, responsibilities, and skill level required by state and national standards for licensing as a Paramedic. This course will familiarize the paramedic student with the EMS systems, legal and regulatory issues, professionalism, therapeutic communication, documentation, critical thinking, safety, and quality care standards. The paramedic student will be provided with relevant anatomy and physiology and lifespan development as it applies to the various medical situations for which EMS is summoned. The student will learn basic patient assessment skills to begin pre-hospital assessment and treatment for each type of medical situation discussed in this course. Emphasis is placed on emergency pharmacology, medication administration and intravenous access, patient monitoring technology, pathophysiology and patient assessment, cardiac management, and airway management. The course closely integrates theory with laboratory practice, thus providing the foundational base from which the learner may develop psychomotor skills, knowledge and judgment of the paramedic by studying the different medical situations to gain a high level of understanding through discussion, learning activities, case studies, skills, and simulations in the classroom and lab environment. This course provides 96 theory hours and 32 laboratory hours.

Offered: Fall
Prerequisites: EMS.101 with a grade of C or better and/or Active EMT-B License. Co-requisite EMS.125.
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable.
General Education -- Not Applicable

EMS.125 Paramedic Practice I

Paramedic Practice I is a paramedic practicum that will provide students the opportunity to complete a minimum of 90 hours clinical experience and a minimum of 30 hours field experience under the supervision of preceptors. Paramedic Practice I is designed to provide the student with the opportunity to build upon cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains from Paramedic I, EMS 120. Student-instructor conferences are scheduled throughout the practicum to evaluate progress. Students will gain these clinical and field experiences through observation and hands-on experiences at Galesburg Cottage Hospital, OSF St. Mary’s Medical Center, and Galesburg Hospitals Ambulance Service. Paramedic Practice I provides the student with the opportunity to become familiar with equipment and procedures used in the profession as well develop assessment skills.

Offered: Fall
Prerequisites: Take EMS.101 with a grade of C or better. Co-requisite EMS.120
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable.
General Education -- Not Applicable

EMS.130 Paramedic II

This course will build on information learned in EMS 120, Paramedic I and EMS 125, Paramedic Practice I as the student will continue studying the different medical and trauma emergencies for which EMS is summoned and cared for by pre-hospital personnel to help reduce morbidity and mortality. Coupled with EMS 135, Paramedic Practice II, a high level of understanding will be developed for situations involving systems such as pulmonology, cardiology, neurology, endocrine, immunology, hematology, gastrointestinal, genitourinary, musculoskeletal, and integumentary, including disorders of those systems. The student will also learn about infectious and communicable diseases, psychiatric and behavioral disorders. A brief review of important anatomy and physiology as it applies to the different medical and trauma emergencies in question will be included, as well as relevant pathophysiology, providing the student with the needed information to begin pre-hospital assessment and treatment for each type of medical and trauma emergency discussed. Students will gain this high level of understanding for patient(s) with medical emergencies and trauma emergencies based on the body systems involved through discussion, learning activities, laboratory activities, and case studies. This course provides 112 theory hours and 32 laboratory hours.

Offered: Spring
Prerequisites: Take EMS.120 with a grade of C or better and EMS.125 with a grade of C or better. Take EMS.135
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable.
General Education -- Not Applicable
The student will study the different trauma emergencies for which EMS is summoned for which care is provided by pre-hospital personnel to help reduce morbidity and mortality. Coupled with EMS.205, Paramedic Practice 4, a high level of understanding for the pediatric and geriatric patient(s) and traumatic emergencies based on the body systems involved will be gained through discussion and learning activities and case studies.

Offered: Spring

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

**EMS.205 Paramedic Practice 4**

Through simulations and case studies, this course will allow students to learn how to provide care for pediatric and geriatric patient(s) and trauma emergencies for which care is provided by pre-hospital personnel to help reduce morbidity and mortality. Further experience will be gained through clinical experience at area medical institutions through observation or hands-on experiences.

Offered: Spring

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

**EMS.210 Paramedic III**

This course prepares the graduating paramedic student with the knowledge and principles associated with the acute management of medical or traumatic emergencies for the pediatric, obstetric, geriatric, and the challenged patient(s). Coupled with EMS 215, Paramedic Field Internship, a high level of understanding for the pediatric, obstetric, and geriatric patient(s) with traumatic emergencies based on the body systems involved will be gained through discussion, learning activities, laboratory activities, and case studies. Students will learn about operations of an ambulance as well as medical incident management, environmental emergencies, rescue awareness and operations, hazardous material incidents, crime scene awareness, and terrorism. Preparation for entry level paramedic practice will be supported with discussion of contemporary paramedic practice and current Illinois laws related to the paramedic profession. The student will be prepared to take the state or national examination upon completion of this course and EMS 215 Paramedic Field Internship. This course provides 40 theory hours and 16 laboratory hours.

Offered: Summer

Prerequisites: Take EMS.130 with a grade of C or better and EMS.135 with a grade of C or better. Corequisite: Take EMS.215

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable.
General Education – Not Applicable

**EMS.215 Paramedic Field Internship**

Paramedic Field Internship, EMS 215 will provide students the opportunity to work 40 clinical - personal preference hours under the supervision of a preceptor and 200-300 field internship hours under the supervision of an Illinois licensed EMT-Paramedic preceptor, gaining experience in the delivery of prehospital advanced life support patient care. Students get ambulance experience and must meet a minimum of 40 ALS patient contacts, and must be documented as the Team Leader in 20 of those patients. The 40 hours clinical experiences will be in Pediatrics, Obstetrics, Geriatrics, and Psychatrics. Student-instructor conferences are scheduled throughout the internship to evaluate progress. Students completing EMS 125 Paramedic Practice I, EMS 135 Paramedic Practice II, and EMS 215 Paramedic Field Internship will have completed 280 clinical hours and 360 field internship hours to meet program requirements. On successful completion of EMS 210 and EMS 215, students are eligible to take the state or national examination.

Offered: Summer

Prerequisites: Take EMS.130 and EMS.135 with grades of C or better
Take EMS.210

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable.
General Education – Not Applicable