

EMS EMERGENCY MEDICAL SERVICES

	Hr/Wk	Hr/Wk	Sem
	Lect/	Clin	Cr
	Disc	Lab	Hr

Courses

EMS.101 Emergency Medical Technician 7.5 1 8

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. (1.2).
General Education -- Not Applicable

EMS.110 Fundamentals of Paramedic 2 2

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 applicable (1.2).

General Education -- Not Applicable

EMS.112 Paramedic Pharmacology 2 1 2.5

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: Take 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. (1.2).

General Education -- Not Applicable

EMS.115 Paramedic Practice 1 6 2

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 (1.2).

General Education -- Not Applicable

EMS.120 Paramedic I

6 2 7

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(s) 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 simulation in the class and lab environment. This course provides 96 theory hours and 32 laboratory hours.

Offered: Fall and Spring

Prerequisites: EMS.101 with a grade of C or better and/or Active, EMT-B License. Corequisite EMS.125.

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable. Other: Admission to the EMS-Paramedic program, (1.2).

General Education -- Not Applicable

EMS.125 Paramedic Practice 1

7.5 2.5

Paramedic Practice I, EMS 125 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 1 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 Corequisite EMS.120 minimum grade C

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable (1.2).

General Education -- Not Applicable

EMS.131 Paramedic II Medical

3.5 1 4

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 emergencies for which EMS is summoned and care is provided by pre-hospital personnel to help reduce morbidity and mortality. The student will also learn the acute management of medical emergencies for the pediatric, obstetric, geriatric, and the challenged patient(s). 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, and psychiatric and behavioral disorders. A brief review of important anatomy and physiology as it applies to the different medical 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 emergency discussed. Students will gain this high level of understanding for patient(s) with medical emergencies based on the body systems involved through discussion, learning activities, laboratory activities, and case studies. This course provides 56 theory hours and 16 laboratory hours. Prerequisites: EMS 120 and EMS 125 with a grade of C or higher.

Offered: Fall and Spring

Prerequisites: Take EMS.120 and EMS.125 with a grade of C or Higher
Applicable toward graduation at CSC where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable (1.2).
General Education -- Not Applicable

EMS.132 Paramedic II Trauma

3.5 1 4

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 trauma emergencies for which EMS is summoned and care is provided by pre-hospital personnel to help reduce morbidity and mortality. 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 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 trauma emergency discussed. Students will gain this high level of understanding for patient(s) with trauma emergencies based on the body systems involved through discussion, learning activities, laboratory activities, and case studies. This course provides 56 theory hours and 16 laboratory hours. Prerequisites: EMS 120 and EMS 125 with a grade of C or higher.

Offered: Fall and Spring

Prerequisites: TAKE EMS.120 AND EMS.125 WITH A GRADE OF C OR HIGHER

Applicable toward graduation at CSC where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable (1.2).
General Education -- Not Applicable

EMS.135 Paramedic Practice II 12 4

Paramedic Practice II, EMS 135 is a paramedic practicum that will provide students the opportunity to complete a minimum of 150 hours clinical experience and a minimum of 60-130 hours field experience under the supervision of preceptors. Paramedic Practice II 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 and Paramedic II, EMS 130. Students will gain experience in the delivery of prehospital advanced life support patient care. Student-instructor conferences are scheduled throughout the practicum to evaluate progress.

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.130

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable. (1.2).
General Education -- Not Applicable

EMS.136 Trauma Life Support .5 1 1

This course will enhance and expand the student's existing knowledge and training in the treatment of a trauma victim. Emphasis will be placed on patient assessment and management. Lecture and lab activities focus on rapid assessment, resuscitation, stabilization and transportation of trauma victims. Students successfully completing the course will earn certification in trauma life support by certifying agency. This course is intended for students pursuing first-time certification in trauma life support. IAI Course No.: Not Applicable

Offered: Summer
Prerequisites: Unrestricted State Approved EMT-Basic, EMT-Intermediate, or EMT-Paramedic License or other licensed health care provider with department approval.

Offered: Summer

Prerequisites: Unrestricted State Approved EMT-Basic, EMT-Intermediate, or EMT-Paramedic License or other licensed health care provider with department approval.

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

Offered: Summer

Prerequisites: Unrestricted State Approved EMT-Basic, EMT-Intermediate, or EMT-Paramedic License or other licensed health care provider with department approval.

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable
Other: Unrestricted State Approved EMT-Basic, EMT-Intermediate, or EMT-Paramedic License or other licensed health care provider with department approval. (1.2).

General Education -- Not Applicable

EMS.137 Advanced Cardiac Life Support .5 1 1

This course will provide instruction in the management of cardiovascular-related emergencies and to prepare appropriate healthcare professionals to provide evidence-based treatment for a cardiovascular emergency. Upon successful completion of the course, the student will be issued an American Heart Association Advanced Cardiac Life Support (ACLS) provider card. Students will use this course for both first-time certification and subsequent updated course for continuing education/re-certification. Offered: Summer

Prerequisites: Current American Heart Association - Healthcare Provider CPR certification; physician, nursing, EMT, paramedic, respiratory therapy, or other appropriate allied/clinical health personnel; department approval
Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable
Other: Current American Heart Association - Healthcare Provider CPR certification; physician, nursing, EMT, paramedic, respiratory therapy, or other appropriate allied/clinical health personnel; department approval (1.2).

General Education -- Not Applicable

EMS.138 Pediatric Pre-Hospital Education .5 1 1

This course provides specialized instruction for the health care provider in the assessment and management of pediatric emergencies. Instruction will focus on child and family interaction and communication, assessment and treatment of medical and traumatic emergencies, as well as patient stabilization and transport. Students successfully completing the course will earn certification in pediatric resuscitation by certifying agency. Students will use this course for both first-time certification and subsequent updated course for continuing education/re-certification.

Offered: Fall or Summer

Prerequisites: Current American Heart Association - Healthcare Provider CPR certification; physician, nursing, EMT, paramedic, respiratory therapy, or other appropriate allied/clinical health personnel; department approval
Applicable toward graduation at CSC where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable
Prerequisites: Current American Heart Association - Healthcare Provider CPR certification; physician, nursing, EMT, paramedic, respiratory therapy, or other appropriate allied/clinical health personnel; department approval
Offered: Fall or Summer

Prerequisites: Current American Heart Association - Healthcare Provider CPR certification; physician, nursing, EMT, paramedic, respiratory therapy, or other appropriate allied/clinical health personnel; department approval
Applicable toward graduation at CSC where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable
General Education: Not Applicable (1.2).

General Education -- Not Applicable

EMS.200 Paramedic IV 2 2

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 (1.2).

General Education -- Not Applicable

EMS.205 Paramedic Practice 4 6 2

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 (1.2).

General Education -- Not Applicable

EMS.210 Paramedic III 2.5 1 3

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. (1.2).

General Education -- Not Applicable

EMS.220 Paramedic Field Internship 18 6

In Paramedic Field Internship, EMS 220, will provide students the opportunity to work 450-550 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. Student-instructor conferences are scheduled throughout the internship to evaluate progress. On successful completion of EMS 220, students are eligible to take the state or national examination.

Applicable toward graduation at Sandburg where program structure permits:

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

General Education -- Fall and Spring