

# Emergency Medical Services

## Emergency Medical Services–Paramedic

Associate of Applied Science Degree  
Sioux City Campus

### Program Overview and Opportunities:

The Emergency Medical Technician - Paramedic program provides information and skill training to initiate and maintain treatment for medical, trauma, and cardiac emergencies. The Paramedic Specialist is the highest level of emergency responder training. The Paramedic AAS Degree offers a comprehensive course of study that prepares the graduate to sit for the EMT-B and EMT-PS certification examinations as well as meet the requirements for the AAS degree.

Graduates are prepared to deliver emergency care to patients prior to their arrival at a hospital. Students are trained in life support procedures performed by following orders of the physicians or by following standard operating protocols.

Successful completion of course requirements allows students to write the certification examination for the EMT-P (Paramedic).

Employment of emergency medical technicians and paramedics is expected to grow by 19 percent between 2006 and 2016, which is faster than the average for all occupations. Full-time paid EMTs and paramedics will be needed to replace unpaid volunteers. It is becoming increasingly difficult for emergency medical services to recruit and retain unpaid volunteers because of the amount of training and the large time commitment these positions require. As a result, more paid EMTs and paramedics are needed. Furthermore, as a large segment of the population—aging members of the baby boom generation—becomes more likely to have medical emergencies, demand will increase for EMTs and paramedics. There also will still be demand for part-time, volunteer EMTs and paramedics in rural areas and smaller metropolitan areas. Median salaries in 2006 were \$27,070 annually. (Bureau of Labor Statistics, 2008-2009)

### Are You a Part-time Student?

The following courses could be taken on a part-time basis before acceptance into the Paramedic Specialist program. Some of these courses are offered online.

Refresher reading, English, or math course if CPT scores warrant; EMS 210; ENG general ed. elective; MAT-772; Please see an EMS advisor to develop an individualized plan of study.

### Program Advisors

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### Paramedic Curriculum

Course #	Title	Credits
<b>EMS 217</b>	Emergency Medical Technician .....	7
<b>BIO 169</b>	Human Anatomy & Physiology 1A w/Lab .....	4
<b>MAT 772</b>	Applied Math .....	3
<b>ENG</b>	English General Elective .....	3
<b>BIO 174</b>	Human Anatomy & Physiology 2A w/Lab .....	4
<b>PSY 111</b>	Introduction to Psychology .....	3
<b>CSC 110</b>	Introduction to Computers .....	3
	Humanities/Healthful Living Elective .....	3
<b>Note: you must be an Iowa certified EMT-B to continue on with this program.</b>		
<b>EMS 540</b>	NSC Paramedic I .....	13
<b>EMS 541</b>	Clinical I .....	3
<b>EMS 810</b>	Advanced Cardiac Life Support .....	1
<b>EMS 820</b>	Prehospital Trauma Life Support .....	1
<b>EMS 545</b>	NSC Paramedic II .....	13
<b>EMS 546</b>	Clinical II .....	3
<b>EMS 815</b>	Advanced Pediatric Life Support .....	1
<b>EMS 825</b>	Advanced Medical Life Support .....	1
	<b>Program Total .....</b>	<b>66</b>

See course descriptions in the back of the catalog to determine semester availability and more detailed information about the courses, including course prerequisites and co-requisites.

The courses listed above are grouped in the order that they should be taken each semester. Please see an advisor to ensure correct course sequence.

# Emergency Medical Services

## Advanced Emergency Medical Technician

Certificate

Sioux City, Cherokee, and Denison Campuses

### Program Overview and Opportunities:

This course will provide the student with roles and responsibilities of the EMS provider; well-being including injury prevention and infectious disease; an overview of human systems; pharmacology; venous access; airway management; training for management of medical and trauma emergencies; special considerations of the obstetric, neonatal, pediatric, and geriatric patients; and a focus on assessment-based management. This course will also provide the student the opportunity to apply past and current cognitive knowledge and psychomotor skills in a supervised clinical or field setting. Student must have current Iowa EMT certification, AGA HCP card, and state approved Mandatory Adult and Adult Reporter. Instructor consent required.

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### Advanced Emergency Medical Technician Curriculum

**Prerequisite: EMS 217 Emergency Medical Technician**

Course #	Title	Credits
<b>EMS 217</b>	Emergency Medical Technician .....	7
<b>EMS 312</b>	Advanced Emergency Medical Technician .....	7
	<b>Program Total .....</b>	<b>14</b>

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# Emergency Medical Services

## Paramedic

Diploma  
Sioux City Campus

### Program Overview and Opportunities:

Students must be a certified EMT to enroll in the diploma program.

The Emergency Medical Technician - Paramedic program provides information and skill training to initiate and maintain treatment for medical, trauma, and cardiac emergencies. The Paramedic is the highest level of emergency responder training. The Paramedic diploma offers a comprehensive course of study that prepares the graduate to sit for the EMT-P certification examination as well as meeting the requirements for the degree. The course offerings also apply toward the AAS degree.

Graduates are prepared to deliver emergency care to patients prior to their arrival at a hospital. Students are trained in life support procedures performed by following orders of the physicians or by following standard operating protocols.

Successful completion of course requirements allows students to write the certification examination for the EMT-P (Paramedic).

Employment of emergency medical technicians and paramedics is expected to grow by 19 percent between 2006 and 2016, which is faster than the average for all occupations. Full-time paid EMTs and paramedics will be needed to replace unpaid volunteers. It is becoming increasingly difficult for emergency medical services to recruit and retain unpaid volunteers because of the amount of training and the large time commitment these positions require. As a result, more paid EMTs and paramedics are needed. Furthermore, as a large segment of the population—aging members of the baby boom generation—becomes more likely to have medical emergencies, demand will increase for EMTs and paramedics. There also will still be demand for part-time, volunteer EMTs and paramedics in rural areas and smaller metropolitan areas.

Median salaries in 2006 were \$27,070 annually. (Bureau of Labor Statistics, 2008-2009)



### Paramedic Diploma Curriculum

Course #	Title	Credits
<b>EMS 540</b>	NSC Paramedic I .....	13
<b>EMS 541</b>	Clinical I .....	3
<b>EMS 810</b>	Advanced Cardiac Life Support .....	1
<b>EMS 820</b>	Prehospital Trauma Life Support .....	1
<b>EMS 545</b>	NSC Paramedic II .....	13
<b>EMS 546</b>	Clinical II .....	3
<b>EMS 815</b>	Advanced Pediatric Life Support .....	1
<b>EMS 825</b>	Advanced Medical Life Support .....	1
<b>ENG</b>	English General Elective .....	3
<b>MAT 772</b>	Applied Math .....	3
<b>Program Total .....</b>		<b>42</b>

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# Emergency Medical Services

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## Emergency Medical Technician

Certificate

Sioux City, Cherokee, and Denison Campuses

### Program Overview and Opportunities:

Emergency Medical Technician provides students with the knowledge and skill necessary to perform basic emergency care and transport. Some advanced skills are taught.

### Program Advisors

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### Emergency Medical Technician Curriculum

Course #	Title	Credits
EMS 217	Emergency Medical Technician .....	7
<b>Program Total .....</b>		<b>7</b>

\* Denotes courses commonly articulated with area high schools.

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## Emergency Medical Responder

Certificate

Sioux City, Cherokee, and Denison Campuses

### Program Overview and Opportunities:

This course emphasizes the development of student skills in emergency medical care procedures. Curriculum includes life-threatening emergencies, injuries to various body parts, techniques of moving patients, CPR-BLS, Mandatory Reporting, and bloodborne pathogens. Successful completion of course requirements allows students to write certification examination for Emergency Medical Responder. Course meets pre-admission requirements for all health occupations.

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### Emergency Medical Responder Curriculum

Course #	Title	Credits
EMS 114	Emergency Medical Responder* .....	2
<b>Total Credits .....</b>		<b>2</b>

\* Denotes courses commonly articulated with area high schools.

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Please see an Emergency Medical Services program advisor to ensure correct course sequence.