



Justice Center 155, 417.625.3020

**Faculty** Krtek

The School of Technology and the Emergency Medical Training Department offer certificate programs preparing students to take the National Registry examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and area Trauma Centers. Students seeking information about these programs should check with the Director of EMS programs for details about scheduling of the courses. The courses offered meet all requirements of the National Curriculum. The Department of Emergency Medical Training is an Accredited Training Entity for the Missouri Department of Health and the Missouri Bureau of Emergency Medical Services.

Classroom instruction is supplemented by clinical observation and experience. The program meets through three semester periods beginning each fall semester. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent, and possess a current Missouri State EMT ambulance license. A minimum of one-year experience is preferred. Out-of-state students should contact the EMS Training Office no later than May to begin reciprocity application. Applications and pretest information should be obtained from the Office before the end of the spring semester. Special book and equipment fees are assessed for this course.

**Associate of Arts**

Major Code 7008

<b>Core Requirements (p. 33) 42*</b> .....	<b>38</b>
Bio 221 Human Physiology and Anatomy* . . . . .	5
Para-250 EMT - Paramedic .....	12
Para-270 EMT - Paramedic .....	12
Para-290 EMT - Paramedic .....	9

**76**

\*Satisfies four hours of Core requirements.

**Admission Criteria**

1. Must be 18 years of age before first class.
2. High school graduation diploma or its equivalent.
3. Evidence of successful completion and certification of a course of training for EMT-Basic.
4. Must submit a complete record of immunizations.
5. Have a current State of Missouri EMT-Basic license.
6. Maturity of judgment, sound moral character and health status, which provide reasonable assurance that the student will meet the physical and mental demands of the occupation.
7. Proof of current health insurance.
8. Have a State Highway Patrol background check completed and sent to EMS training department at MSSU.

**OUT OF STATE STUDENTS:**

Students must apply for and receive a Missouri EMT-Basic license before the first day of class. Write: Missouri Bureau of EMS, Attn: Greg Natsch, Box 570, Jefferson City, MO 65102 for details 573.751.6356.

Final selection of students by the admissions committee shall be based on the following factors:

1. **Oral interview** to determine career goals, communication skills, background, and orientation toward the paramedic educational program.
2. **Written and practical exam** which will include EMT-Basic as well as math questions.
3. **Letters of recommendation** from employers, professional personnel, and/or past instructors.

Student must complete and submit an application by June 1 for admission to MSSU prior setting for the pre-test and interview.

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## **Course Descriptions**

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**Paramedic I**

Para 250

12 hrs. cr.

**EMT - Paramedic**

This training course is organized to cover the Preparatory, Airway Management, Patient Assessment, and Trauma portion of the National Curriculum. The classes will meet for three, four-hour classes each week of the semester. The class time will include both didactic and hands-on training of the skills needed. These will include medication administration, airway maintenance, IV access, and monitoring. There will be no clinical hours included in this semester. Prerequisites include a current National Registry or Missouri EMT-Basic license and a CPR card. Para 250 is a prerequisite for Para 270.

**Paramedic 2**

Para 270

12 hrs. cr.

**EMT - Paramedic**

This training course is organized to provide the student with knowledge about the acute, critical differences in physiology, pathophysiology, or clinical symptoms, as they pertain to the pre-hospital emergency medical care of the infant, child, adolescent, adult, and geriatric patient. The student will have an opportunity to acquire clinical experience and practical skills related to the emergency medical care of these patients both during class time and during hospital based clinical rotations. Prerequisites include completion of Para 250 and a current EMT-Basic license. Para 270 is a prerequisite for Para 290.

**Paramedic 3**

Para 290

9 hrs. cr.

**EMT - Paramedic**

This is the final portion of the Paramedic Program. During Paramedic 3, the student will meet for one class a week for the didactic portion covering special considerations in emergency medicine, assessment based management, and operations of the Emergency Medical Services. During the remaining part of the week, the student will be assigned specific hours with Advanced Life Support Ambulance Services and specified Preceptors to complete the Field Internship portion of the training. Prerequisites include completion of Para 270.

**For additional information contact:**

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 Visit our web site at: [www.mssu.edu/schtech/ems/home.htm](http://www.mssu.edu/schtech/ems/home.htm)



**Faculty** Sloan - Head, Chelf, Knapp, Marsh

The Physical Science Department at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia, have prepared booklets describing the Cooperative Engineering Program between these schools and MSSU. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve Area of Spiva Library. Any adviser who desires a copy of the booklet should contact the Physical Science Department.

	Semester Hours
<b>Core Requirements (p. 33) 26 **</b> .....	<b>15</b>
<b>Pre-Engineering Requirements</b> .....	<b>50-51</b>
Phys 250 General Physics I* .....	2
Phys 260 General Physics II* .....	3
Phys 290 General Physics III* .....	4
Phys 291 General Physics III Lab .....	1
Phys 312 Statics* .....	3
Chem 101 General Chemistry I* .....	5
Math 150 Calculus with Analytical Geometry I* . . .	5
Math 250 Calculus with Analytical Geometry II* . . .	5
Math 260 Calculus with Analytical Geometry III* . . .	5
CIS 110 Programming I .....	3
Econ 201 Principles of Economics (Macro) .....	3
Elective (Math or Physics)*** .....	7-8
Electives (Humanities/Social Science/Drafting/ Chemistry/Computer Science)*** .....	4

**65-66**

\*See course descriptions for prerequisites.  
 \*\*Required math and physics courses simultaneously satisfy 11 hours of Core Curriculum and major requirements.

\*\*\*The student should meet with a pre-engineering adviser for the proper selection depending on the field of engineering.

**Suggested Order of Study**

**Associate of Science Degree**

Major Code 5499

**Pre-Engineering Major**

**Freshman Year**

1st Semester		Hours
Course		
CORE	[Eng 101 Comp I]	3
Math 150	Calculus I	5
Phys 250	General Physics I	2
Phys 260	General Physics II	3
Chem 101	General Chemistry I	5
CORE	[Psy 120 College Orient]	1
		<b>19</b>

**2nd Semester**

Math 250	Calculus II	5
Phys 290	General Physics III	4
Phys 291	General Physics III Lab	1
Econ 201	Principles of Economics	3
CORE	[Fine Arts/Humanities]	3
CORE	[Kine 101 Physical Activity]	1
		<b>17</b>

**Sophomore Year**

1st Semester		Hours
Math 260	Calculus III	5
Phys 280	General Physics III	5
CIS 110	Programming I	3
CORE	[Hist 110/120 U.S. Hist]	3
CORE	[Kine 103 Lifetime Wellness]	2
		<b>18</b>

**2nd Semester**

Math 322	Differential Equations*	3
Phys 372	Electronic Circuits*	4
Phys 312	Statics	3
Phys 341	Thermal Physics*	4
OR		
Phys 322	Classical Mechanics*	3
CORE	[Comm 100 Oral Communication]	3
		<b>16-17</b>

\*Suggested elective, not required for A.S. degree.

**For additional information contact:**

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