

ILT 132	Programming Survey for Technicians
ILT 135	Local Area Networks
ILT 169	Hydraulics/Pneumatics
ILT 175	Computer Fundamentals for Technology Students
ILT 180	Special Topics
ILT 196	Programmable Logic Controllers II
ILT 203	Biomedical Electronics I
ILT 216	Industrial Robotics
ILT 228	FCC General Radiotelephone License Prep
ILT 232	PC Repair Clinical
ILT 239	Certification Preparation
ILT 271	Independent Study
ILT 272	Independent Study
ILT 273	Independent Study
ILT 274	Independent Study
ILT 280	Special Topics
ILT 280A	A+ Certification Preparation
ILT 280B	Network+ Certification Preparation
ILT 280E	EEI Test Preparation
ILT 294	Biomedical Electronics Clinical I

NOTE: Two Electronics Electives totaling 6 sem. hours are required.

Student should consult advisor concerning possible electives from other program areas.

\*Students who have completed ENG 130 prior to Spring 2000, and students substituting ENG 102 must take Speech.

\*\*Computer competency skills are embedded within one or more courses required in this curriculum.

\*\*\*Keyboarding skills are essential for the successful completion of English 101.

### **Biomedical Equipment Technology 470105 BET Advanced Option for AAS Degree or Short-Term Certificate**

Available: Shoals Campus

Advisor: R. Reaves (5201) [rgr@nwsc.edu](mailto:rgr@nwsc.edu)

This advanced option, in addition to the Electronics Technology Associate in Applied Science Degree, will prepare the student for employment in both the medical and industrial settings as biomedical equipment technicians. The increasing complexity of biomedical equipment demands the availability of highly skilled technicians, knowledgeable in the theory of application, underlying physiological principles, and safe application of biomedical equipment. To enter this certificate program, the student must have program advisor approval and have satisfactorily completed the requirements for the Electronics Technology AAS Degree at the College.

	Semester		
	Theory	Lab	Hours
BIO 103 Principles of Biology I	3	2	4
ILT 169 Hydraulics/Pneumatics	3	0	3
ILT 203 Biomedical Electronics I	3	0	3
ILT 204 Biomedical Electronics II	3	0	3
ILT 226 BMET Certification Preparation or Certification Preparation Elect.	3	0	3
ILT 294 Biomedical Electronics Clinical I	0	10	3
ILT 295 Biomedical Electronics Clinical II	0	10	3
<b>Total Semester Credit Hours</b>			<b>22</b>

### **Emergency Medical Services 510904 EMP Associate in Applied Science Degree**

Available: Shoals Campus

Advisors: M. Simpson (5435) [msimpson@nwsc.edu](mailto:msimpson@nwsc.edu)

K. Montgomery (5336) [kmontgomery@nwsc.edu](mailto:kmontgomery@nwsc.edu)

C. Colvin (5436) [ccolvin@nwsc.edu](mailto:ccolvin@nwsc.edu)

T. Oyen (5437) [oyen@nwsc.edu](mailto:oyen@nwsc.edu)

**NOTICE: The EMS admission criteria, the progression guidelines, and the curriculum are currently being revised. Please see an EMS advisor.**

The Emergency Medical Services Program is designed to prepare qualified applicants in basic and advanced emergency care in clinical and in field environments. Graduates qualify for employment with fire and rescue departments, ambulance services, industries and emergency departments within medical facilities. EMS education spans three levels of competency: First Responder, EMT-Basic and EMT-Paramedic. Each level of competency meets or exceeds standards set forth by the Department of Transportation (DOT), National Standard Training Curriculum, and by the State of Alabama Department of Public Health. The Emergency Medical Services Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs in the association with the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (COAEMSP). Students may enroll in the EMS program with the intention of completing only the courses required for each level of EMS education: EMT-Basic or EMT-Paramedic. Upon successful completion of any of the two levels, the student will be eligible to take the EMT National Registry examination for state licensure. To receive an Associate of Applied Science Degree in Emergency Medical Services, the student must complete the EMT certificate levels and all academic core curriculum course requirements.

All EMS students must take all parts of the ASSET or COMPASS placement test. Students completing the tests should see the Program Director for placement into the English and math classes. Because EMS programs contain a clinical component, students are required to meet additional health requirements as well as the "Essential Functions of the EMT." Questions regarding the EMS program should be directed to the Program Director at (256) 331-5435.

#### **ADMISSION REQUIREMENTS for the EMT-BASIC**

To be eligible to enroll in the BASIC EMT course, a student must complete the following:

1. Meet all admission requirements of the College and Alabama Department of Public Health;
2. Be a high school graduate or have a GED;
3. Attain the prescribed scores on the ASSET or COMPASS placement tests;
4. Be at least 18 years old (younger students who meet certain conditions may be able to enroll with the permission of the Program Director);
5. Possess a valid driver's license;

6. Hold current BCLS – CPR certification at the provider level. American Red Cross course equivalent is Professional Rescuer. “Community CPR is not acceptable.” Students will be allowed to enter the EMT Basic program without CPR certification provided they enroll in a CPR class prior to clinical rotations beginning. This **class** is provided by the EMS Department;
7. Present evidence of health insurance or sign a waiver;
8. EMS 107 Emergency Vehicle Operator Course is required to qualify for licensure as an ambulance driver in the State of Alabama. Students must successfully complete this course and meet additional requirements by the Alabama Department of Public Safety. This program is provided by the EMS Department.

#### **ADMISSION REQUIREMENTS for the PARAMEDIC**

To be eligible to enroll in the EMT PARAMEDIC courses, a student must complete the following:

1. Meet all admission requirements of the College and Alabama Department of Public Health;
2. Be a high school graduate or have a GED;
3. Attain the prescribed scores on the ASSET or COMPASS placement tests;
4. Be at least 18 years old (younger students who meet certain conditions may be able to enroll with the permission of the Program Director);
5. Possess a valid driver’s license;
6. Hold current BCLS – CPR certification at the provider level. American Red Cross course equivalent is Professional Rescuer. “Community CPR is not acceptable.” Students will be allowed to enter the program without CPR certification provided they enroll in a CPR class prior to clinical rotations beginning. This class is provided by the EMS Department;
7. Present evidence of health insurance or sign a waiver;
8. EMS 107 Emergency Vehicle Operator Course is required to qualify for licensure as an ambulance driver in the State of Alabama. Students must successfully complete this course and meet additional requirements by the Alabama Department of Public Safety. This program is provided by the EMS Department.

**CERTIFICATE OPTION:** In addition to the general admission requirements, students admitted to the certificate program must:

1. Provide documentation of completion of an approved EMT-Basic course. Students without college credit for the EMT-Basic Program must meet with the Program Director and successfully complete an assessment test prior to acceptance into the Paramedic Program.
2. Complete ENG 101 and MTH 100 or MTH 116 with a grade of “C” or higher prior to completion of the Paramedic Program;
3. Complete BIO 201 & BIO 202 prior to starting the 3rd semester of the paramedic program.
4. Students not enrolling in BIO 201 & BIO 202 must complete EMP 189 prior to starting the 3rd semester of the paramedic program.

**AAS DEGREE OPTION:** In addition to the general admission requirements, students admitted to the degree tract must:

1. Provide documentation of completion of an approved EMT-Basic course. Students without college credit for the EMT-Basic Program must meet with the Program Director and successfully complete an assessment test prior to acceptance into the Paramedic Program.
2. Complete ENG 101 and MTH 100 or MTH 116 with a grade of “C” or higher prior to completion of the Paramedic Program;
3. Complete BIO 201 prior to starting the 3rd semester of the paramedic program.
4. Complete BIO 202 prior to completion of the Paramedic Program. (Students may complete EMP 189 to complete the Paramedic Program initially. Students will be required to complete BIO 201 and BIO 202 prior to awarding of the degree)

#### **PROGRAM CONTINUATION**

In order to continue in the Basic or Paramedic courses, the student must complete the following:

1. Complete and submit physical examination form and required data PRIOR to attendance at clinical. The student must present written documentation on College forms of a physical examination within the last 12 months by a licensed practicing physician. In addition, the student must:
  - a. Be free from any communicable disease;
  - b. Possess eyesight in a minimum of one eye correctable to 20/20 vision, approximately one hundred and eighty (180) degrees peripheral vision capability and have adequate color perception.
  - c. Complete a health history, verifying such information as immunization and disease history and special medical needs;
  - d. Receive (at student expense) necessary immunizations/ tests including hepatitis vaccine;
  - e. Demonstrate the ability to send and receive messages.
2. Meet “Essential Functions of the EMT” with or without accommodations by assigned date. A copy of these functions is available upon request.
3. Complete and submit “Essential Functions of the EMT Verification form” by required date.
4. Purchase professional liability insurance through the College.
5. Complete drug testing as directed by Health Studies Division.
6. The EMS program grading scale is:
  - 100 – 90 = A
  - 89 – 80 = B
  - 79 – 75 = C
  - 74 – 60 = D
  - 59 and below = F
7. Receive a grade of “C” in each EMS or EMP course in order to continue.
8. Earn a satisfactory clinical evaluation on the clinical component of any course with a clinical component.

#### **TRANSFER STUDENTS**

Students who wish to transfer into any EMS program from another college must meet the same requirements as resident students. Additional requirements may need to be met if courses were taken out-of-state. Transfer students should contact the Program Director to discuss these matters.

**READMISSION**

1. Students are required to complete the EMT Basic program within one year of initial entry; otherwise all EMT Basic courses must be repeated.
2. Students are required to complete the EMT Paramedic program within two years of initial entry; otherwise all Paramedic courses must be repeated.
3. Students who are unsuccessful on the second (2nd) admission will be dismissed from the paramedic program.
4. Students dismissed from the paramedic program are allowed one (1) appeal to the College Admission's Committee. The Admissions Committee will review dismissal cases only during the week of New Student Registration. A student seeking consideration by the Admissions Committee must initiate a petition for appeal no later than the date of New Student Registration. Students or prospective students seeking an appeal should submit their request in writing to the Director of Admissions no later than the published date of New Student Registration. A student seeking admission/readmission may have his/her case presented before the committee in absentia or in person.

**Entering students are required to complete ORI 101. Transfer students are exempt from this requirement.**

<b>General Education Requirements</b>	<b>Semester Hours</b>
BIO 201 Human Anatomy and Physiology I .....	4
BIO 202 Human Anatomy and Physiology II .....	4
ENG 101 English Composition I .....	3
ENG 102 English Composition II .....	3
MTH 100 or MTH 116 .....	3
PSY 200 General Psychology .....	3
Humanities Elective .....	3
<b>Total General Education Requirements .....</b>	<b>23</b>

**Major Requirements**

EMS 116 EMS Basic Theory and Lab .....	9
EMS 117 EMS Basic Clinical Competencies I .....	1
EMP 189 Applied Anatomy & Physiology for the Paramedic .....	4
EMP 191 Paramedic Preparatory .....	2
EMP 192 Paramedic Operations .....	3
EMP 193 Patient Assessment Management .....	3
EMP 194 Paramedic General Pharmacology .....	2
EMP 195 Advanced Trauma Management .....	6
EMP 198 Medical Patient Management I .....	3
EMP 199 Cardiovascular Electrophysiology .....	3
EMP 200 Medical Patient Management IIA .....	6
EMP 203 Cardiovascular Patient Management .....	3
EMP 204 Transition to Paramedic Practice .....	3
EMP 205 Paramedic Terminal Competencies .....	2
EMP 206 Paramedic Field Preceptorship .....	6
EMP 207 Paramedic Team Leader Preceptorship .....	1
<b>Total Major Requirements .....</b>	<b>48</b>

**Total Semester Credit Hours .....** 71

\*\*Computer competency skills are embedded within one or more courses required in this curriculum.

**EMT-Paramedic  
Career Certificate**

510904 EMS

**All entering students are required to complete ORI 100 unless transferred from another university or college.**

	<b>Semester</b>		
	<b>Theory</b>	<b>Lab</b>	<b>Hours</b>
ENG 101 English Composition I	3	0	3
MTH 100 or MTH 116	3	0	3
EMP 189 Applied Anatomy and Physiology for the Paramedic	4	0	4
EMP 191 Paramedic Preparatory	2	0	2
EMP 192 Paramedic Operations	2	2E	3
EMP 193 Patient Assessment and Management	2	2E	3
EMP 194 Paramedic General Pharmacology	1	2E	2
EMP 195 Advanced Trauma Management	2	9P3	6
EMP 198 Medical Patient Management I	2	2E	3
EMP 199 Cardiovascular Electrophysiology	2	2E	3
EMP 200 Medical Patient Management II	2	9P3	6
EMP 203 Cardiovascular Patient Management	2	2E	3
EMP 204 Transition to Paramedic Practice	2	2E	3
EMP 205 Paramedic Terminal Competencies	1	2E	2
EMP 206 Paramedic Field Preceptorship	1	15P3	6
EMP 207 Paramedic Team Leader Preceptorship	0	3P3	1
<b>Total Semester Credit Hours .....</b>			<b>53</b>

**EMT-Basic  
Short-Term Certificate**

510904 EMT

	<b>Semester</b>		
	<b>Theory</b>	<b>Lab</b>	<b>Hours</b>
EMS 116 EMS Basic Theory and Lab	6	3 (1E)	9
EMS 117 EMS Basic Clinical Competencies I	0	3 (P3)	1
<b>Total Semester Credit Hours .....</b>			<b>10</b>