

## PROGRAM UPDATES

**RE: The following programs have been updated beginning Fall 2023**

### **Courses required for: Manufacturing and Technology Degree, Biomedical Equipment Technology Option (AAS C036)**

#### **General Courses ..... (22 Hours)**

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
ENG 101	English Composition I .....	3
MTH 100	Intermediate College Algebra or higher ....	3
SPH 107	Fundamentals of Public Speaking or .....	3
SPH 106	Fundamentals of Oral Communication	
CIS 146	Computer Applications .....	3
PHY 115	Technical Physics or .....	4
PHS 112	Physical Science II or	
BIO 103	Principles of Biology (biomed students only)	
Social and Behavioral Science Elective: (ASOC).....		3
(anthropology, geography, history, economics, political science, sociology, psychology)		
Humanities and Fine Arts Elective: (AHUM).....		3
(art, humanities, religion, theatre, music philosophy, intermediate foreign language, literature)		

#### **Biomedical Equipment Technology Option ..... (48 Hours)**

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
BIO 201	Human Anatomy & Physiology I .....	4
BET 200	Introduction to Biomedical Electronic Systems .....	3
BET 201	Pulse and Computer Circuits .....	3
BET 202	Biomedical Electronic Systems I .....	3
BET 203	Biomedical Electronic Systems II .....	3
BET 204	Clinical On-Site Study .....	4
BET 205	Law and Legal Issues in HTM .....	3
ELM 202	Digital Circuits I .....	3
ELM 205	Electronics I .....	3
ELM 206S	Electronics II .....	3
ELM 200	Electric Circuits I .....	3
ELM 201S	Electric Circuits II .....	3
ELM 281	Special Topics in Electromechanical Technology .....	3
HED 231	First Aid .....	3
MET 190	Mechanical Tools I .....	4
Total Credit Hours .....		70

**Courses required for:  
Biomedical Equipment Technology Option (CER C036)**

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
ENG 101	English Composition I .....	3
MTH 100	Intermediate College Algebra or higher ....	3
ELM 200	Electric Circuits I .....	3
ELM 201S	Electric Circuits II .....	3
BET 200	Introduction to Biomedical Electronic Systems .....	3
BET 202	Biomedical Electronic Systems I.....	3
BET 204	Clinical On-Site Study .....	4
ELM 202	Digital Circuits I .....	3
ELM 205	Electronics I.....	3
ELM 206S	Electronics II.....	3
Total Credit Hours.....		31

**Courses required for:  
Biomedical Equipment Technology Option (STC C036)**

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
BET 200	Introduction to Biomedical Electronic Systems .....	3
BET 202	Biomedical Electronic Systems I.....	3
ELM 200	Electric Circuits I .....	3
ELM 201S	Electric Circuits II .....	3
ELM 202	Digital Circuits I .....	3
ELM 205	Electronics I.....	3
<i>Must be eligible for ENG 101 and MTH 100</i>		
Total Credit Hours.....		18

**Courses required for: Paramedic Degree (AAS C232)**

**General Courses .....(19 hours)**

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
ENG 101	English Composition I .....	3
MTH 100	Intermediate College Algebra .....	3
	Humanities and Fine Arts Elective: (AHUM).....	3
	(art, humanities, religion, theatre, music philosophy, intermediate foreign language, literature)	
*BIO 103	Principles of Biology I.....	4
SPH 107	Fundamentals of Public Speaking or	
SPH 106	Fundamentals of Oral Communications ...	3
PSY 200	General Psychology .....	3

\*A higher-level Biology course will satisfy this requirement.  
See advisor for a substitution request.

**Major Courses ..... (53 Hours)**

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
EMS 118	Emergency Medical Technician .....	9
EMS 119	Emergency Medical Technician Clinical.....	1
EMS 155	Advanced Emergency Medical Technician.....	7
EMS 156	Advanced Emergency Medical Technician Clinical .....	2
EMS 189	Applied Anatomy and Physiology for the Paramedic.....	4
EMS 240	Paramedic Operations .....	2
EMS 241	Paramedic Cardiology.....	3
EMS 242	Paramedic Patient Assessment .....	2
EMS 243	Paramedic Pharmacology.....	1
EMS 244	Paramedic Clinical I .....	1
EMS 245	Paramedic Medical Emergencies .....	3
EMS 246	Paramedic Trauma Management .....	3
EMS 247	Paramedic Special Populations .....	2
EMS 248	Paramedic Clinical II .....	3
EMS 253	Paramedic Transition to the Workforce ..	2
EMS 254	Advanced Competencies for Paramedic .....	2
EMS 255	Paramedic Field Preceptorship.....	5
EMS 256	Paramedic Team Leadership.....	1
	Total Credit Hours.....	72

### Courses required for: Paramedic Certificate (CER C232)

The courses listed below are part of the A.A.S. degree. While completing requirements for A.A.S. degree, a student can earn the certificate. To be awarded the certificate, the student should complete a graduation application.

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
ENG 101	English Composition I .....	3
MTH 100	Intermediate College Algebra.....	3
SPH 107	Fundamentals of Public Speaking or	
SPH 106	Fundamentals of Oral Communications.....	3
EMS 155	Advanced Emergency Medical Technician .....	7
EMS 156	Advanced Emergency Medical Technician Clinical .....	2
EMS 189	Applied Anatomy and Physiology for the Paramedic .....	4
EMS 240	Paramedic Operations .....	2
EMS 241	Paramedic Cardiology .....	3
EMS 242	Paramedic Patient Assessment .....	2
EMS 243	Paramedic Pharmacology .....	1
EMS 244	Paramedic Clinical I.....	1
EMS 245	Paramedic Medical Emergencies.....	3
EMS 246	Paramedic Trauma Management.....	3
EMS 247	Paramedic Special Populations .....	2
EMS 248	Paramedic Clinical II .....	3
EMS 253	Paramedic Transition to the Workforce.....	2
EMS 254	Advanced Competencies for Paramedic....	2
EMS 255	Paramedic Field Preceptorship .....	5
EMS 256	Paramedic Team Leadership .....	1
Total Credit Hours.....		52

*Students earning this certificate may take the National Registry Exam and apply for licensure as a Paramedic.*

### Courses required for: AEMT Short Certificate (STC C245)

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
EMS 155	Advanced Emergency Medical Technician .....	7
EMS 156	Advanced Emergency Medical Technician Clinical .....	2
<i>Must be eligible for ENG 101 and MTH 100</i>		
Total Credit Hours.....		9

**Courses required for: Funeral Service Education Certificate (CER C098)**

**A grade of "C" or better is required in all courses with FSE prefix.**

<b>Course</b>	<b>Title</b>	<b>Sem Hrs</b>
ENG 101	English Composition.....	3
MTH Elective: (A116)	MTH 100 or MTH 116, or higher level math course .....	3
Humanities and Fine Arts Elective: (AHUM).....	(art, humanities, religion, theatre, music philosophy, intermediate foreign language, literature)	3
CIS 130	Introduction to Information Systems or .....	3
CIS 146	Computer Applications or	
FSE 227	Computer Principles and Funeral Service Application	
FSE 101	Funeral Directing.....	3
FSE 110	Law and Ethics for Funeral Service .....	3
FSE 145	Basic Accounting Procedures for Funeral Services .....	3
FSE 223	Funeral Service Social Science .....	3
FSE 225	Funeral Service Management I.....	3
FSE 226	Funeral Service Management II.....	3
Total Credit Hours.....		30