

**College of Basic and Applied Sciences**  
**Upper Division Form 2004-2005 Catalog**  
*(NOTE: This major requires 124 hours.)*

Student name \_\_\_\_\_ Student # \_\_\_\_\_  
 Major Engineering Technology Minor \_\_\_\_\_  
 Concentration Electro-Mechanical Engr Tech E-mail \_\_\_\_\_

Instructions: For students graduating in Fall 2004 or later. One (1) copy signed by major and minor advisors should be filed in the Records Office during the second semester of the sophomore year. An Intent to Graduate form should be filed in the Records Office during the first semester of the senior year.

General Education	Course	Semester	Grade	Notes	Credit Hours
<b>COMMUNICATION</b> (9 hours)	ENGL 1010				3
	ENGL 1020				3
	COMM 2200				3
<b>HISTORY</b> (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030					3
					3
<b>HUMANITIES AND/OR FINE ARTS</b> (9 hours) Choose 1: ENGL 2020, 2030, or HUM 2610. Choose 2 with different prefixes: ANTH 2210, ART 1030, DANC 1000, HIST 1010, 1020, 1110, 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
<b>MATHEMATICS</b> (3 hours)	MATH 1730			Fourth credit listed in Supporting Courses	3 of 4
<b>NATURAL SCIENCES</b> (8 hours)	CHEM 1110				4
	PHYS 2010/2011				4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, GEOG 2000, HLTH 1530, PS 1010, PS 2010, PSY 1410, SOC 1010, WMST 2100					3
					3
<b>Hours Required</b>					<b>41</b>

Major Courses (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
Introduction to Metals and Metallurgy	ET 1210				3
Engineering Fundamentals	ET 1840				3
CADD I	ET 2310				3
Machine Tool Technology	ET 3210				3
CADD II	ET 3360				3
Electrical Circuit Analysis – DC	ET 3601				3
Electrical Circuit Analysis – AC	ET 3602				3
Digital Circuits Fundamentals	ET 3620				3
Electronics I	ET 3630				3
Introduction to Microprocessors	ET 3650				3
Engineering Thermodynamics and Heat Transfer	ET 3810				3
Statics	ET 3830				3
Strength of Materials	ET 3860				3
Industrial Safety	ET 4420				3
Programmable Logic Controllers	ET 4600				2
Instrumentation and Controls	ET 4610				3
Industrial Electricity	ET 4640				3

**Major requirements continued from previous page**

Industrial Seminar	ET 4710				1
Senior Problems in Engineering Technology	ET 4802				3
Fluid Power	ET 4850				3
Robotics	ET 4860				3
Engineering Economy	ET 4970				3
<b>Hours Required</b>					<b>63</b>

<b>Supporting and Elective Courses</b>					
<b>Course</b>	<b>Semester</b>	<b>Grade</b>	<b>Notes</b>		<b>Credit Hours</b>
CSCI 1170 – Computer Science I (C++)					4
ENGL 3520 – Professional Writing					3
MATH 1530 – Applied Statistics					3
MATH 1730 – Algebra and Trigonometry			3 credits counted in General Education		1 of 4
MATH 1910 – Calculus I					4
MATH 2110 – Data Analysis					1
PHYS 2020/2021 – Non-Calculus Based Physics II (Modern Phys)					4
<b>Hours Required</b>					<b>20</b>

<b>Optional Minor – EMET does NOT require a minor</b>					
<b>Course</b>	<b>Semester</b>	<b>Grade</b>	<b>Notes</b>		<b>Credit Hours</b>
<b>Hours Required</b>					
<b>Signed:</b>					
	<b>Minor Advisor</b>				<b>Date</b>

1. Degrees require a minimum of 120 semester hours (12 of the last 18 at MTSU) with a 2.0 GPA, a minimum of 42 upper-division hours (30 at MTSU) with a 2.0 GPA, and a minimum of 60 senior college hours.
2. Remedial/developmental courses do not count toward the 120-hour requirement or cumulative degree GPA.
3. Courses used to fulfill high school deficiencies can only be counted as general elective credit.

<b>Signed:</b>		
	<b>Major Advisor</b>	<b>Date</b>
<b>Signed:</b>		
	<b>Department Chairperson (needed only if substitutions are indicated)</b>	<b>Date</b>
<b>Signed:</b>		
	<b>Dean of College (needed only if substitutions are indicated)</b>	<b>Date</b>