

**College of Basic and Applied Sciences**  
**Upper Division Form Fall 2009 - Summer 2010**

Student name \_\_\_\_\_  
 Major Engineering Technology  
 Concentration Engineering Systems Tech.

Student # \_\_\_\_\_  
 Minor \_\_\_\_\_

Instructions: For students graduating in Fall 2009 or later. One (1) copy signed by major and minor advisors should be filed in Jones Hall Room 115 three semesters prior to graduation. An Intent to Graduate form should be submitted with this form.

General Studies Area	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, 1910, or 1920, DANC 1000, HIST 1010, 1020, 1110, or 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
<b>MATHEMATICS</b> (3 hours required for General Studies)	MATH 1730			4 <sup>th</sup> credit in Supporting Courses.	3 of 4
<b>NATURAL SCIENCES</b> (8 hours) Choose either CHEM 1010/1011 or CHEM 1110/1111, and take PHYS 2010/2011	CHEM				4
	PHYS 2010/2011				4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (6 hours): Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, EMC/JOUR/RIM 1020, GEOG 2000, GS 2010, HLTH 1530, PS 1010, PS 2010, PSY 1410, SOC 1010 or 2010, WMST 2100					3
					3
<b>Hours Required</b>					41
Major Courses	Course	Semester	Grade	Notes	Credit Hours
ENGINEERING FUNDAMENTALS	ET 1840				3
COMPUTER AIDED DRAFTING/DESIGN CAD I	ET 2310				3
MACHINE TOOL TECHNOLOGY	ET 3210				3
MANUFACTURING PROCESSES & MATERIALS	ET 3260				3
ELECTRICAL CIRCUIT ANALYSIS I	ET 3601				3
ELECTRICAL CIRCUIT ANALYSIS II	ET 3602				3
ENGINEERING THERMODYNAMICS & HEAT TRANSFER	ET 3810				3
STATICS	ET 3830				3
INTRO TO OPERATIONS MANAGEMENT	ET 3910				3
INDUSTRIAL QUALITY TECHNOLOGY	ET 3960				3
INDUSTRIAL SAFETY	ET 4420				3
MANUFACTURING AUTOMATION SYSTEMS	ET 4590				3
PROGRAMMABLE LOGIC CONTROLLERS	ET 4600				2
INDUSTRIAL SEMINAR	ET 4710				1
SENIOR PROBLEM (CAPSTONE)	ET 4803				3
PRODUCTIVITY STRATEGIES	ET 4900				3
PROJECT MANAGEMENT & SOFT SKILLS	ET 4915				3
PLANT LAYOUT & MATERIALS HANDLING	ET 4920				3
ENGINEERING ECONOMY	ET 4970				3
INDUSTRIAL ENGINEERING SYSTEMS	ET 4990				3
INDUSTRIAL ORIENTATION INTERNSHIP *	ET 2920				2
<b>Hours Required</b>					59

\*ET 2920 is required for the certifications earned in ET 3960 or ET 4900

\*\*Requires completion of Experiential Learning Portfolio with hours awarded the last semester attended.

Supporting and Elective Courses				
Course	Semester	Grade	Notes	Credit Hours
MATH 1730 PRE-CALCULUS			3 credit hours counted in General Education	1
CSCI 1170 COMPUTER SCIENCE I				4
ENGL 3620 PROF. WRITING or ENGL 3605 APPLIED WRITING				3
APPLIED STATISTICS (3 hours) MATH 1530 or QM 2610 or PSY 3020				3
MATH 1910 CALCULUS I				4
SURVEY OF ACCOUNTING ACTG 3000 or both 2110 and 2120				3-6
ELECTIVES: Choose 2 (6 hours)				6
ET 1210 INTRO TO METALS & METALLURGY (3 hours)				
PSY 3320 INDUSTRIAL PSYCHOLOGY (3 hours)				
ET 3360 COMPUTER-ASSISTED DRAFTING/DESIGN II (3 hours)				
ET 3860 STRENGTH OF MATERIALS (3 hours)				
ET 3950 METROLOGY (3 hours)				
ET 4280 COMPUTER-AIDED MANUFACTURING; NC (3 hours)				
ET 4370 TOOL DESIGN (3 hours)				
ET 4850 FLUID POWER (3 hours)				
ET 4910 MAINTENANCE MANAGEMENT (3 hours)				

Hours Required 24 - 27

**Work-based and/or Experiential Learning Credit**

WORK-BASED/EXPERIENTIAL LEARNING CREDIT (up to 30 hours)\*\*

**Minor**

Course	Semester	Grade	Notes	Credit Hours

Hours Required

Signed:		
	Minor Advisor	Date

1. Engineering Technology Degrees require a minimum of 124 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 courses do not count toward the 124-hour requirement or cumulative degree GPA.

\*\*Work-Based/Experiential Learning Credit could substitute for course requirements

Signed:		
	Major Advisor	Date

Student's local address:  
to which graduation analysis  
information should be sent: \_\_\_\_\_  
\_\_\_\_\_