

College of Basic and Applied Sciences — Upper Division Form 2017-2018
(Requires 124 total credit hours)

Student name _____ Student # _____
 Major Engineering Technology Minor _____
 Concentration Mechanical Engineering Tech. E-mail _____

Instructions: For students graduating in Fall 2017 or later. One (1) copy signed by major and minor advisors should be filed with the Graduation Analyst in DSB 120 three semesters prior to graduation. An Intent to Graduate form must be submitted with this form.

General Education	Course	Semester	Grade	Notes	Credit Hours
COMMUNICATION (9 hours)	ENGL 1010				3
	ENGL 1020				3
	COMM 2200				3
HISTORY (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030					3
					3
HUMANITIES AND/OR FINE ARTS (9 hours) Choose 1: ENGL 2020, 2030, or HUM 2610. Choose 2 with different prefixes: ANTH 2210, ART 1030 or 1920, DANC 1000, HIST 1010, 1020, 1110, or 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
MATHEMATICS (3 hours)	MATH 1730			The fourth credits counts in Supporting courses.	3 of 4
NATURAL SCIENCES (8 hours)	CHEM 1110/1111				4
	PHYS 2010/2011				4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two with different prefixes: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, EMC/JOUR/RIM 1020, GEOG 2000, GS 2010, HLTH 1530/1531, PS 1010, or 1005, PSY 1410, RS 2030, SOC 1010, or 2010, WGST 2100					3
					3
Hours Required					41

Major Courses (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
Engineering Fundamentals	ENGR 1100			Pre: MATH 1730	3
Introduction to Materials Science and Engineering	ENGR 1210			Pre: CHEM 1110/1111	3
Statics	ENGR 2110			Pre: ENGR 1100, MATH 1910; Co: PHYS 2010/2011	3
Dynamics	ENGR 2120			Pre: ENGR 2110, MATH 1920	3
Technical Project Management and Soft Skills	ENGR 3915			Pre: Junior/Senior	3
Engineering Safety	ENGR 3920				3
Engineering Economy	ENGR 3970			Pre: Junior/Senior	3
Computer Assisted Drafting/Design I	ET 2310				3
Industrial Orientation Internship	ET 2920			Permission of Dept	1
Machine Tool Technology	ET 3210			Pre: ET 2310, ENGR 1210	3
Manufacturing Processes	ET 3260			Pre: ENGR 1210	3
Computer Assisted Drafting/Design II	ET 3360			Pre: ET 2310	3
Electrical Circuit Analysis – DC	ET 3601			Pre: ENGR 1100; Co: MATH 1910	3
Electrical Circuit Analysis – AC	ET 3602			Pre: ET 3601, MATH 1910	3
Engineering Thermodynamics and Heat Transfer	ET 3810			Pre: ENGR 1100, PHYS 2010, MATH 1910	3
Strength of Materials	ET 3860			Pre: ENGR 2110	3

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Major Requirements continued from previous page

Advanced CADD	ET 4330			Spring only; Pre: ET 3360	2
Design of Machine Elements	ET 4340			Pre: ET 3860	3
Industrial Seminar	ET 4710			Pre: Junior/Senior	1
Senior Problems in Engineering Technology	ET 4803			Pre: ET 3860, 4340, 4815; Permission of Dept	3
Heating, Ventilation, and Air-conditioning	ET 4815			Pre: ET 3810	3
Vibration	ET 4830			Fall only; Pre: ENGR 2120	3
Fluid Power	ET 4850			Pre: ENGR 1100, ET 3810	3
Robotics	ET 4860			Spring only; Pre: MATH 1910, CSCI 3 hrs	3
Hours Required					67

Supporting and Elective Courses				
Course	Semester	Grade	Notes	Credit Hours
CSCI 1170 – Computer Science I			Pre: MATH 1730 C	4
MATH 1730 – Algebra and Trigonometry			4 th credit from General Education; Need C	1
ENGL 3620 – Professional Writing			Could substitute ENGL 3605 if not qualified to take ENGL 3620. Pre: ENGL lit and ENGL 1020 or 3605 with B	3
MATH 1910 – Calculus I			Need C; Pre: MATH 1730 C	4
MATH 1920 – Calculus II			Need C; Pre: MATH 1910 C	4
Hours Required				16

Optional Minor – MET does NOT require a minor				
Course	Semester	Grade	Notes	Credit Hours
Hours Required				
Signed:				
	Minor Advisor			Date

- 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. Learning Support courses do not count toward the 120-hour requirement or cumulative degree GPA.*

Signed:			
	Major Advisor		Date