

College of Basic and Applied Sciences — Upper Division Form 2017-2018

(Requires 124 total credit hours)

Student name _____ Student # _____
 Major Engineering Technology Minor _____
 Concentration Computer Engineering Technology 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			4th credit will count in Supporting Courses	3 of 4
NATURAL SCIENCES (8 hours)	CHEM 1110/1111				4
	PHYS 2010/2011			Pre: MATH 1730 or MATH 1710 C	4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two (different rubrics): 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
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
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
Digital Circuits Fundamentals	ET 3620			Need C; Pre: ET 3601	3
Electronics	ET 3630			Pre: ET 3602	3
Digital Circuits Design	ET 3640			Fall only; Pre: ET 3620 C; Co: ET 3630	3
Introduction to Microprocessors	ET 3650			Pre: CSCI 1170 C, ET 3620 C	3
Computer Assisted Printed Circuit Board Design	ET 3670			Fall only; Pre: ET 3620, ET 3630	2
Programmable Logic Controllers	ET 4600			Pre: ET 3602	2
Instrumentation and Controls	ET 4610			Pre: ET 3620, ET 3630	3
Local Area Networks	ET 4630			Spring only	3
Industrial Electricity	ET 4640			Pre: ET 3602	3
Microprocessors Interfacing	ET 4660			Spring only; Pre: ET 3650 C, Junior/Senior	3
Microprocessors Design	ET 4670			Fall only; Pre: ET 3640, ET 4660	3
Industrial Seminar	ET 4710			Pre: Junior/Senior	1
Senior Problems in Engineering Technology	ET 4801			Pre: ET 4670, CSCI 3160, Dept Permission	3
Hours Required					53

Supporting and Elective Courses					
Supporting Courses	Course	Semester	Grade	Notes	Credit Hours
Computer Science I	CSCI 1170			Need C; Pre: MATH 1730 C	4
Computer Science II	CSCI 2170			Pre: CSCI 1170 C	4
Introduction to Assembly Language	CSCI 3160			Pre: CSCI 1170 C	3
Introduction to Numerical Analysis	CSCI 3180			Pre: MATH 1920 C	3
Professional Writing	ENGL 3620			Pre: ENGL lit & B in ENGL 1020 or 3605	3
Math 1730 (4th credit from General Education)	MATH 1730			Need C	1 of 4
Calculus I	MATH 1910			Need C; Pre: MATH 1730 C	4
Calculus II	MATH 1920			Need C; Pre: MATH 1910 C	4
Non-Calculus Based Physics II	PHYS 2020/2021			Pre: PHYS 2010/2011	4
Hours Required					30

Optional Minor – Recommended: Computer Science Minor					
Minor Courses		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