

**College of Basic and Applied Sciences — Upper Division Form 2019-2020**

(Requires 124 total credit hours)

Student name \_\_\_\_\_ Student # \_\_\_\_\_

Major Engineering Technology Minor \_\_\_\_\_

Concentration Computer Engineering Technology E-mail \_\_\_\_\_

**Instructions: For students graduating in Summer 2019 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
<b>COMMUNICATION</b> (9 hours)	ENGL 1010				3
	ENGL 1020			Pre: ENGL 1010 with a C- or better	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 subjects: ANTH 2210, ART 1030 or 1920, DANC 1000, HIST 1010, 1020, 1110, or 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
<b>MATHEMATICS</b> (3 hours) Choose one: MATH 1010, 1530, 1630, 1710, 1720, <b>1730</b> , 1810, 1910	<b>MATH 1730</b>			<b>MATH 1730 is required for major</b>	3 of 4
<b>NATURAL SCIENCES</b> (8 hours) Choose two different subjects: ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111, BIOL 2010/2011, BIOL 2020/2021, CHEM 1010/1011, CHEM 1030/1031, <b>CHEM 1110/1111</b> , GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, <b>PHYS 2010/2011</b> , PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131	<b>CHEM 1110/1111</b>			*see major courses for required sequences/pre-requisites; <b>CHEM 1110/1111 required</b>	4
	<b>PHYS 2010/2011</b>			*see major courses for required sequences/pre-requisites; <b>PHYS 2010/2011 required</b> Pre: MATH 1730 or MATH 1710 C(2.0) or better	4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (6 hours) Choose two different subjects: 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
<b>Hours Required</b>					<b>41</b>

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 I	ET 3601			Pre: ENGR 1100, Co: MATH 1910	3
Electrical Circuit Analysis II	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	3
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
Senior Problems in Engineering Technology	ET 4801			Pre: ET 4670, CSCI 3160, Dept. Permission	3
<b>Hours Required</b>					<b>53</b>

Supporting Courses					
Supporting Courses	Course	Semester	Grade	Notes	Credit Hours
Computer Science I	CSCI 1170			MATH 1730 with a C(2.0) or better, ACT MATH of 26, or Calculus Placement test with satisfactory score	4
Computer Science II	CSCI 2170			CSCI 1170 with a C(2.0) or better and eligibility for MATH 1910	4
Introduction to Assembly Language	CSCI 3160			Pre: CSCI 1170 with a C(2.0) or better	3
Introduction to Numerical Analysis	CSCI 3180			Pre: MATH 1920, CSCI 1170 both with a C(2.0) or better	3
Professional Writing	ENGL 3620			Pre: ENGL lit & B in ENGL 1020 or 3605	3
Math 1730	MATH 1730			Need C(2.0); 3 credits count in general education	1 of 4
Calculus I	MATH 1910			Pre-req: MATH 1730 with a C(2.0) or better, ACT MATH of 26, or Calculus Placement test with satisfactory score; must earn a grade of C(2.0) or better	4
Calculus II	MATH 1920			Pre-req: MATH 1910 with a C(2.0) or better	4
General Chemistry I	CHEM 1110/1111			Credits count in general education	0
Non-Calculus Based Physics I	PHYS 2010/2011			Credits count in general education	0
Non-Calculus Based Physics II	PHYS 2020/2021			Pre: PHYS 2010/2011	4
<b>Hours Required</b>					<b>30</b>

Optional Minor – Recommended: Computer Science Minor; Computer Science minor requires a C (2.0) or better in all CSCI courses					
Minor Courses		Semester	Grade	Notes	Credit Hours
<b>Hours Required</b>					
<b>Signed:</b>					
	<b>Minor Advisor</b>				<b>Date</b>

- 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.
- Learning Support courses count toward the 120-hour requirement and the overall GPA.

<b>Signed:</b>					
	<b>Major Advisor</b>				<b>Date</b>