

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

Student name \_\_\_\_\_ Student # \_\_\_\_\_  
 Major Computer Science Minor \_\_\_\_\_  
 Concentration Professional Computer Science 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	Prerequisites	Credit Hours
<b>COMMUNICATION</b> (9 hours)	ENGL 1010			Must earn C- or higher	3
	ENGL 1020			Must earn C- or higher	3
	COMM 2200			Must earn C (2.0) or higher	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 one: ENGL 2020, 2030 or HUM 2610. Choose two with different subjects: ANTH 2210, ART 1030, or 1920, DANC 1000, HIST 1010, 1020, 1110 or 1120, MUS 1030, PHIL 1030, THEA 1030				Literature: ENGL 1010, ENGL 1020	3
					3
<b>MATHEMATICS</b> (3 hours) Choose one: MATH 1010, 1530, 1630, 1710, 1720, 1730, 1810, <b>1910</b>				<b>MATH 1910 is required for major</b>	3 of 4
<b>* NATURAL SCIENCES</b> (8 hours) Choose two different subjects: ASTR 1030/1031, BIOL 1030/1031, <b>BIOL 1110/1111</b> , BIOL 2010/2011, BIOL 2020/2021, <b>CHEM 1010/1011</b> , CHEM 1030/1031, <b>CHEM 1110/1111</b> , GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, <b>PHYS 2010/2011</b> , <b>PHYS 2110/2111</b> , PSCI 1030/1031, PSCI 1130/1131				Note: Choose two different subjects; a year-long sequence will be continued in supporting courses; subjects in bold are only sciences accepted for accreditation/graduation	4
					4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (6 hours) Choose two different subjects: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, GS 2010, HLTH 1530/1531, PS 1010 or PS 1005, PSY 1410, RS 2030, SOC 1010 or 2010, WGST 2100, EMC/JOUR/RIM 1020					3
					3
<b>Hours Required</b>					<b>41</b>

\* See your advisor for Natural Sciences options

Major Courses - ** Must have a C (2.0) or better in all major courses	Course	Semester	**Grade	Prerequisites/Notes	Credit Hours
Computer Science Colloquium	CSCI 1010				1
Computer Science I	CSCI 1170			MATH 1730 with a C(2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score	4
Computer Science II	CSCI 2170			CSCI 1170 and eligibility for MATH 1910	4
Discrete Structures	CSCI 3080			CSCI 1170, MATH 1910	3
Algorithms & Data Structures	CSCI 3110			CSCI 2170; co-req CSCI 3080	3
Assembly & Computer Organization	CSCI 3130			CSCI 2170	4
Theory of Programming Languages	CSCI 3210			CSCI 3110, COMM 2200; Spring only	3
Introduction to Computer Systems	CSCI 3240			CSCI 3130	4
Compiler Design and Software Development	CSCI 4160			CSCI 3080, CSCI 3110, CSCI 3130; Fall only	3
Software Engineering	CSCI 4700			CSCI 3080, CSCI 3110, COMM 2200	3
CSCI High-Level Language				CSCI 3110 or consent of instructor	3
Upper-Division CSCI Elective				See undergraduate catalog	3
Upper-Division CSCI Elective				See undergraduate catalog	3
Upper-Division CSCI Elective				See undergraduate catalog	3
<b>Hours Required</b>					<b>44</b>

Supporting Courses				
Course	Semester	Grade	Prerequisites/Notes	Credit Hours
Math 1910			Pre-req: MATH 1730 with a C(2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score; must earn a grade of C(2.0) or higher; 3 credits count in general education	1 of 4
Math 1920			Pre-req: MATH 1910 with a C(2.0) or higher	4
Math 2050			Pre-req: MATH 1910 with a C(2.0) or higher	3
Math elective (4 hours required):			Must be a math course for math majors.	3-4
Math elective:			Must be a math for math majors; take only if first math elective is a 3 hour course	0-1
Science: (can choose from BIOL 1120/1121, CHEM 1020/1021, CHEM 1120/1121, PHYS 2020/2021, or PHYS 2120/2121)			Complete a two-part, year-long sequence started in general education natural sciences area. CHEM 1120 requires a C- or better in CHEM 1110	4
PHIL 3170 Ethics and Computing Technology				3
COMM 2200			Credits counted in General Education; must earn a grade of C(2.0 or better)	(3)
<b>Elective Courses (16 credits required; at least 4 credits must come from 3000/4000 level)</b>				
<b>Hours Required</b>				<b>34-36</b>

Minor (optional)				
Course	Semester	Grade	Notes	Credit Hours
<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. Learning Support courses count toward the 120-hour requirement and the overall GPA.

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