

**College of Basic and Applied Sciences
2020-2021 Upper Division Form**

Student name _____ Student # _____
 Major Chemistry, ACS Certified Minor _____
 MTSU E-mail _____

Instructions: For students graduating in Fall 2016 or later, One (1) copy signed by major advisor and minor advisor (if applicable) should be filed with the Graduation Coordinator in DSB 120 three semesters prior to graduation. An Intent to Graduate form must accompany 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 one: ENGL 2020 or 2030 or HUM 2610 Choose two (different rubrics): ANTH 2210, ART 1030, ART 1920, DANC 1000, HIST 1010, HIST 1020, HIST 1110, HIST 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
MATHEMATICS (3 hours) * Choose one: MATH 1010, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, MATH 1810, MATH 1910				Recommend MATH 1730 or MATH 1910	3 of 4 *
NATURAL SCIENCES (8 hours) Choose two (different rubrics): ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111, BIOL 2010/2011, BIOL 2020/2021, CHEM 1010/1011, CHEM 1030/1031, CHEM 1110/1111, GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, PHYS 2010/2011, PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131				Recommend CHEM 1110/1111	4
				Recommend PHYS 2110/2111	4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, GS 2010, HLTH 1530/1531, JOUR/EMC/RIM 1020, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100					3
					3
Hours Required					41

Major Courses (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
General Chemistry I	CHEM 1110/1111			Preq: High school Chemistry.	(4)
General Chemistry II	CHEM 1120/1121			Preq: CHEM 1110/1111 with a C- or better	4
Quantitative Analysis	CHEM 2230			Preq: CHEM 1120/1121 with grade of C- (or equivalent course)	3
Quantitative Analysis Lab	CHEM 2231			Preq: CHEM 1120/1121 with grade of C- (or equivalent course)	2
Careers in Chemistry and Biochemistry	CHEM 3000			Preq: CHEM 3010/3011	1
Organic Chemistry I	CHEM 3010/3011			Preq: CHEM 1120/1121 or equivalent	4
Organic Chemistry II	CHEM 3020/3021			Preq: CHEM 3010/3011	4
Inorganic Chemistry I	CHEM 4400			Preq: CHEM 1120 or equivalent; CHEM 3010/3011 recommended.	3
Physical Chemistry I	CHEM 4350/4351			Preq: MATH 1920; PHYS 2120/PHYS 2121	4
In-Depth Physical Chemistry	CHEM 4360/4361			Preq: CHEM 4350/4351	4
Principles of Biochemistry	CHEM 3530/3531			Preq: CHEM 3010/CHEM 3011	4
Complete at least 4 hours from CHEM 3890, 3980, or 4880	CHEM			Preq: Permission of instructor; CHEM 2230 or: CHEM 3020/CHEM 3021 recommended	4

<p>Complete 7 hours of Chemistry Upper Division Electives, with at least 6 hours from CHEM 4000, CHEM 4100, CHEM 4150, CHEM 4310, CHEM 4410, CHEM 4520, CHEM 4540, CHEM 4610, CHEM 4700, CHEM 4990</p> <p>And</p> <p>at least 1 hour from CHEM 3080, CHEM 3090, CHEM 4190, CHEM 4230/4231, CHEM 4280, CHEM 4380, CHEM 4530, CHEM 4430/4431, CHEM 4780</p>	CHEM				7
Hours Required					48

Supporting and Elective Courses				
Course	Semester	Grade	Notes	Credit Hours
PHYS 2110/2111			Preq: MATH 1910 w/minimum grade of C	(4)
PHYS 2120/2121			Preq: PHYS 2110/2111 and MATH 1920 with a minimum grade of C	4
MATH 1730			Preq: MATH 1710 or successful completion of high school precalculus course	1
MATH 1910			Pre-req: MATH 1730 with a C (2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score	4
MATH 1920			Preq: MATH 1910	4
Electives			Sufficient Upper Division credit must be taken to equal the 36 required.	11-22
Hours Required				31-35

Optional Minor				
Course	Semester	Grade	Notes	Credit Hours
Hours Required				

1. Degrees require a minimum of 120 semester hours with a cumulative and major GPA 2.0 or higher, a minimum of 36 upper-division hours (3000/4000 level), and a minimum of 50 senior college hours (earned at a four year college or university).
2. A minimum of 12 upper division hours (3000/4000 level) must be completed within the major.

Signed:		
	Major Advisor	Date

*May count towards General Education. If program requirements are also used to fulfil General Education requirements the number of elective hours will increase.