

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

Student name \_\_\_\_\_ Student # \_\_\_\_\_  
 Major Chemistry, MTEACH Minor Secondary Education  
 MTSU E-mail \_\_\_\_\_

**Instructions: For students graduating in Fall 2016 or later, One (1) copy signed by major and minor advisors should be filed in DSB 120 with the Graduation Coordinator three semesters prior to graduation. An Intent to Graduate form must accompany the upper division form.**

General Education	Course	Semester	Grade	Notes	Credit Hours
<b>COMMUNICATION</b> (9 hours)	ENGL 1010				3
	ENGL 1020				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 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
<b>MATHEMATICS</b> (3 hours) * Choose one: MATH 1010, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, MATH 1810, MATH 1910				<b>Recommend MATH 1730 or MATH 1910</b>	3 of 4 *
<b>NATURAL SCIENCES</b> (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				<b>Recommend CHEM 1110/1111</b>	4
				<b>Recommend PHYS 2010/2011</b>	4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (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
<b>Hours Required</b>					41

Major Courses (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
<b>General Chemistry I</b>	CHEM 1110/1111			Preq: High school Chemistry.	4*
<b>General Chemistry II</b>	CHEM 1120/1121			Preq: CHEM 1110/1111 with a C-	4
<b>Quantitative Analysis</b>	CHEM 2230			Preq: CHEM 1120/1121 with grade of C-	3
<b>Quantitative Analysis Laboratory</b>	CHEM 2231			Preq: CHEM 1120/1121 with grade of C-	2
<b>Organic Chemistry I</b>	CHEM 3010/3011			Preq: CHEM 1120/1121 or equivalent	4
<b>Organic Chemistry II</b>	CHEM 3020/3021			Preq: CHEM 3010/3011	4
<b>Biochemistry</b> CHEM 3530/3531 OR CHEM 4500 and 4510	CHEM			Preq: CHEM 3020/3021	4-6
<b>Inorganic Chemistry I</b>	CHEM 4400				3
<b>Physical Chemistry</b> CHEM 4330/4331 OR CHEM 4350/4351 and 4360/4361	CHEM				4-8
<b>Research Methods</b>	CHEM 4740			Preq: YOED 3520	3
<b>Chemistry Instruction Internship</b>	CHEM 3890				1
<b>Hours Required</b>					36-42

\*May be counted in General Education

Supporting Courses				
Course	Semester	Grade	Notes	Credit Hours
PSCI 1030/1031 Topics in Physical Science				4
BIOL 1110/1111 General Biology I			MATH 1710 with C- or better or MATH ACT of 19 or higher	4
MATH 1730			Prerequisite to MATH 1910; not required if MATH 1910 completed	0-4*
MATH 1910 Calculus I			Prereq: MATH 1730 with a C or better	4*
MATH 1920 Calculus II			Prereq: MATH 1910 with C or better	4
PHYS 2010/2011 Non-Calculus Based Physics I and Laboratory			Prereq: MATH 1710 with a C or better, MATH 1730, or MATH 1910	4**
PHYS 2020/2021 Non-Calculus Based Physics II and Laboratory			Prereq: PHYS 2010/2011	4
Hours Required				24-28

\*MATH 1730 or MATH 1910 may be counted in General Education

\*\*May be counted in General Education

Secondary Education Minor (MTeach)				
Course	Semester	Grade	Notes	Credit Hours
MSE 1010 Inquiry Approaches to Teaching				1
MSE 2010 Inquiry Lesson Design				1
YOED 3520 Knowing and Learning				3
YOED 3550 Classroom Interactions				3
PHIL 3120 Perspectives on Science and Math				3
YOED 4040 Residency I				4
YOED 4400 Residency II				12
YOED 4050 Project-Based Instruction				3
Hours Required				30

Optional 2 <sup>nd</sup> Minor				
Course	Semester	Grade	Notes	Credit Hours
Hours Required				

- Degrees require a minimum of 120 semester hours with a cumulative and major of 2.0 GPA 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).
- A minimum of 12 upper-division hours (3000/4000 level) must be completed within the major.

Signed:		
	Major Advisor	Date