

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

Student name _____ Student # _____
 Major Biochemistry Minor _____
 Concentration _____ E-mail _____

Instructions: For students graduating in Fall 2018 or later, One copy signed by your major advisor and the biochemistry coordinator should be filed with the Graduation Analyst in DSB room 120 three semesters prior to graduation. An Intent to Graduate form must accompany this form.

General Education	Course	Semester	Grade	Prerequisites/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, 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, or 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 1910. Preq: MATH 1730 with a minimum grade of C or Math ACT score of 26.	3
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 BIOL 1110/1111 Preq: MATH 1710 with C- or better or MATH ACT of 19 or higher.	4
				Recommend CHEM 1110/1111	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			Credits counted in General Education	(4)
General Chemistry II	CHEM 1120/1121			Preq: CHEM 1110/1111 with a C- or better	4
Organic Chemistry I	CHEM 3010/3011			Preq: CHEM 1120/1121	4
Organic Chemistry II	CHEM 3020/3021			Preq: CHEM 3010/3011	4
Physical Chemistry Fundamentals I	CHEM 4330/4331			Preq: MATH 1910; PHYS 2020/PHYS 2021	4
Biochemistry I	CHEM 4500			Preq: CHEM 3020/3021	3
Biochemistry II	CHEM 4510			Preq: CHEM 4500	3
Bioanalytical Chemistry	CHEM 4550/4551			Preq: CHEM 3020/3021	4
Biology & Chemistry Upper Division Electives	BIOL			See advisor	3
	CHEM			See advisor	3
	BIOL or CHEM			See advisor	3
General Biology	BIOL 1110/1111			Preq: MATH 1710 with C- or better or MATH ACT of 19 or higher. Credits counted in General Education.	(4)
General Biology	BIOL 1120/1121			Preq: BIOL 1110/1111	4
Microbiology	BIOL 2230/2231			Preq: BIOL 1120/1121	4
Genetics	BIOL 3250/3251			Preq: BIOL 1120/1121	4
Hours Required					47 (55)

Supporting and Elective Courses				
Course	Semester	Grade	Notes	Credit Hours
PHYS 2010/2011 or PHYS 2110/2111			Preq: MATH 1710 w/minimum grade of C or MATH 1730. MATH 1910 is a Preq for PHYS 2110/2111	4
PHYS 2020/2021 or PHYS 2120/2121			Preq: PHYS 2010/2011. PHYS 2110/2111 and MATH 1920 are Preq for PHYS 2120/2121	4
MATH 1910 (remaining credit from gen ed)			Preq: MATH 1730 with a grade of C or better or Math ACT of 26 or better or Calculus placement test score of 73 or better	1
Electives				10-16
Upper Division Electives				7-13
Hours Required				32

Optional Minor				
Course	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

Signed:				
	Biochemistry Coordinator			Date