

BIOLOGY MAJOR (BIOL.BS)

<u>Required Courses</u>	<u>Hrs.</u>	<u>Prereq.</u>	<u>Rec.Yr.</u>
BIOL 115 Intro to Biology Profession	1	Coreq BIOL 163 or BIOL 164	Fr
BIOL 163 Principles of Molecular Biology	4		Fr
BIOL 164 Principles of Organismal Biology	4	Grade of C- or better in BIOL 163	Fr
BIOL 215 Biostatistics	4	100 level Math placement or completion of DEVL 070; Grade of C- or better in BIOL 164	Soph
BIOL 250 Genetics	4	Grade of C- or better in BIOL 163, 164 for BIOL majors & 163 for Biochem majors; CHEM-221, 223L highly recommended	Soph
BIOL 252 Physiology	4	Grade of C- or better in BIOL 163, 164	Soph
BIOL 254 Research Methods in Biology	4	Grade of C- or better in BIOL 163, 164, 215, 252 for Bio Maj; Grade of C- or better in MATH 115 & ENVS 130 for ENVS maj	Soph
BIOL 310 Ecology	4	BIOL 254, CHEM 161, 163L	Jr/Sr
BIOL *** Biology elective	4		Soph-Sr

One Biodiversity course selected from:

BIOL 315 Botany	4	BIOL 215, 254	Jr
BIOL 316 Vertebrate Zoology	4	BIOL 254	Jr
BIOL 317 Invertebrate Zoology		BIOL 163, 164	Jr
BIOL 322 Mammalogy	4	BIOL 215, 254	Jr

One Integrative course selected from:

BIOL 305 Toxicology	3	BIOL 151, 152	Jr
BIOL 320 Animal Behavior	4	BIOL 254 or P/I	Jr
BIOL 344 Evolution	3	BIOL 250	Jr
BIOL 360 Principles of Microbiology	4	BIOL 250; CHEM 221, 223L	Jr

One Molecular course selected from

BIOL 325 Molecular Embryology	3	BIOL 250	Jr/Sr
BIOL 354 Molecular Cell Biology	4	BIOL 250, CHEM 221, 223L	Jr/Sr
BIOL 374 Immunology	3	BIOL/CHEBI/CHEM/EXSC maj; CHEM 221, 223L	Jr

BIOL 395 Biology Internship	1	BIOL 254	Jr
OR			
BIOL 398/498 Biology Research	1-2	BIOL 254; CHEM 221, 223L	Jr/Sr

^BIOL 497 Seminar	2	Sr Stand or P/Faculty	Sr
CHEM 161 Accel Gen Chem for Sci Majors	3	HS Chemistry and placement or CHEM 105, 107L; Coreq CHEM 163L	Fr/Soph
CHEM 163L Accel Gen Chem for Sci Majors Lab	1	HS Chemistry and placement or CHEM 105, 107L; Coreq CHEM 161	Fr/Soph
OR			
CHEM 131 General Chemistry Sci Maj I	3	*Coreq CHEM 133L	Fr/Soph

**Prerequisite: Must have passed at least one year of high school chemistry or one semester of college chemistry equivalent to CHEM 105/107L or above AND at least one of the following: MATH ACT score of 20, MATH SAT score of 500, grade of C or better in one of the classes: MATH 103, 110, 112, 115, 130, 161.*

CHEM 133L General Chemistry Sci Maj I Lab	1	Coreq CHEM 131	
CHEM 132 General Chemistry Sci Maj II	3	C- or better in CHEM 131, 133L; Coreq CHEM 134L	Fr/Soph
CHEM 134L General Chemistry Sci Maj II Lab	1	Coreq CHEM 132	
CHEM 221 Organic Chemistry I	3	C- or better in CHEM 161, 163L or 131, 133L, 132, 134L; Coreq CHEM 223L	Soph
CHEM 223L Organic Chemistry Lab	1	C- or better in CHEM 161, 163L or 131, 133L, 132, 134L; Coreq CHEM 221	

54-61 total hours

****REMINDERS****

1. Biology majors are expected to take BIOL 163, 164, 215, 250, 252 and 254 by the end of the sophomore year.
2. Majors must take the required Chemistry courses in their freshman or sophomore year.
3. Be aware that most upper division courses are offered every other year.
4. Graduate school candidates should check entrance requirements for several graduate schools.
5. Completion of BIOL-395, 398 or 498 with a grade of C or better is required for graduation.

^Satisfies advanced writing requirement.

NAME: _____

B.S. Degree: Biology Major (for students entering in Fall 2023/Spring 2024)

In the "WHAT" column, enter the specific course number when applicable--e.g. HIST 121. In the "WHEN" column, enter the term and year in which the requirement is satisfied--e.g., sp '20.

General Education	
WHAT	WHEN
_____	ENGL 101* w/ C (2.0) [3 hrs]
_____	ENGL 110 w/ C (2.0)* [3 hrs]
_____	COMM 211 w/ C (2.0) [3 hrs]
_____	Dept senior seminar/writing course
_____	Met by: _____ BIOL 497 [2 hrs]
_____	FYEX 101 [3 hrs]
_____	FYEX 102 [1 hr]
_____	FYEX 103/104/105/106/107 [1 hr]
_____	FYEX 103/104/105/106/107 [1 hr]
_____	FYEX 401 [3 hrs]
_____	Foundational Scientific Inquiry [3-4 hrs]
_____	Foundational Quantitative Analysis [3-4 hrs]

No more than two lens courses may come from same departmental prefix and one lens must be taken at 300 level or above.

_____	_____	Ethical/Spiritual Explor Lens (ETSP) [3 hrs]
_____	_____	Aesthetic Expression Lens (AEXP) [3 hrs]
_____	_____	Per & Soc Well Being Lens (PSWB) [3 hrs]
_____	_____	Cultural Perspectives Lens (CEXP) [3 hrs]
_____	_____	Experimental Inquiry Lens (EXIN) [3 hrs]

36 - 42 Total semester hours

_____ 120 semester hours required for graduation

Biology Major	
WHAT	WHEN
_____	BIOL 115 [1 hr]
_____	BIOL 163 [4 hrs]
_____	BIOL 164 [4 hrs]
_____	BIOL 215 [4 hrs]
_____	BIOL 250 [4 hrs]
_____	BIOL 252 [4 hrs]
_____	BIOL 254 [4 hrs]
_____	BIOL 310 [4 hrs]
_____	BIOL 300 level elective [4 hrs]
_____	BIOL 305/320/344/360 [3-4 hrs]
_____	BIOL 315/316/317/322 [4 hrs]
_____	BIOL 325/354/374 [3-4 hrs]
_____	BIOL 395/398/498 [1-2 hrs]
_____	BIOL 497 [2 hrs]
_____	CHEM 161 [3 hrs]
_____	CHEM 163L [1 hr]
OR	
_____	CHEM 131 [3 hrs]
_____	CHEM 133L [1 hr]
_____	CHEM 132 [3 hrs]
_____	CHEM 134L [1 hr]
_____	CHEM 221 [3 hrs]
_____	CHEM 223L [1 hr]

_____ 54-61 semester hours

*Enter NA (not applicable) if waived upon admission

➤ Only six hours of any minor may overlap with the required credit hours of a student's chosen major. The overlap constraint is not applicable to courses that majors or minors MUST take in others departments.

➤ Except in specifically approved majors, a maximum of 52 hours in an academic discipline may count toward graduation. Three hours over the limit may count to accommodate an internship in the discipline.

➤ The following limits apply when counting hours applicable toward the 120 required for graduation: 4 hours of physical activity (EXSC) and 8 hours of MUSC-149.

➤ Students may not receive credit for BIOL 111 & 112 and BIOL-163 and 164.