

BIOLOGY MAJOR Pre-Med Concentration

<u>Required Courses</u>	<u>Hrs.</u>	<u>Prereq.</u>	<u>Rec.Yr.</u>
BIOL 115	Intro to Biology Profession	1	Fr
BIOL 163	Principles of Molecular Biology	4	Fr
BIOL 164	Principles of Organismal Biology	4	Fr
BIOL 215	Biostatistics	4	Soph
BIOL 250	Genetics	4	Soph
BIOL 252	Physiology	4	Soph
BIOL 254	Research Methods in Biology	4	Soph
BIOL 310	Ecology	4	Jr/Sr
BIOL ***	Biology elective	4	Soph-Sr
<u>One Biodiversity course selected from:</u>			
BIOL 315	Botany	4	Jr
BIOL 316	Vertebrate Zoology	4	Jr
BIOL 317	Invertebrate Zoology	4	Jr
BIOL 322	Mammalogy	4	Jr
<u>One Integrative course selected from:</u>			
BIOL 305	Toxicology	3	Jr
BIOL 320	Animal Behavior	4	Jr
BIOL 344	Evolution	3	Jr
BIOL 360	Principles of Microbiology	4	Jr
<u>One Molecular course selected from:</u>			
BIOL 325	Molecular Embryology	4	Jr/Sr
BIOL 354	Molecular Cell Biology	4	Jr/Sr
BIOL 374	Immunology	4	Jr
BIOL 395	Biology Internship	1	Jr
	<u>OR</u>		
BIOL 398/498	Biology Research	1-2	Jr/Sr
^BIOL 497	Seminar	2	Sr
CHEM 161	Accel Gen Chem for Sci Majors	3	Fr/Soph
CHEM 163L	Accel Gen Chem for Sci Majors Lab	1	Fr/Soph
	<u>OR</u>		
CHEM 131	General Chemistry Sci Maj I	3	Fr/Soph
<i>*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.</i>			
CHEM 133L	General Chemistry Sci Maj I Lab	1	
CHEM 132	General Chemistry Sci Maj II	3	Fr/Soph
CHEM 134L	General Chemistry Sci Maj II Lab	1	
CHEM 221	Organic Chemistry I	3	Soph
CHEM 223L	Organic Chemistry Lab	1	
55-60 total hours			
<u>Pre-Med Concentration (15 hours)</u>			
CHEM 222	Organic Chemistry II	3	Soph
CHEM 224L	Organic Chemistry II Lab	1	Soph
<u>Three courses beyond the core of which two must include a lab:</u>			
BIOL *305	Principles of Toxicology	3	Jr
BIOL 325	Molecular Embryology	4	Jr
BIOL 354	Molecular Cell Biology	4	Jr/Sr
BIOL 360	Principles of Microbiology	4	Jr
BIOL 374	Immunology	3	Jr/Sr
BIOL 388/488	Approved special topics	3	
CHEM 350/351L	Biochemistry I & Lab	3/1	Jr/Sr
CHEM 352/353L	Biochemistry II & Lab	3/1	Jr/Sr
CHEM 388/488	Approved special topics	3	Jr/Sr

*no lab

- Biology majors are expected to take BIOL 163 164, 215, 250, 252 and 254 by the end of the sophomore year.
- Majors must take required Chemistry courses in their freshman or sophomore year.
- Be aware that most upper division courses are offered every other year.
- Graduate school candidates should check entrance requirements for several graduate schools.
- 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 2019/Spring 2020)
Pre-Med Concentration**

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 '00.

General Education		Biology Major – Pre-Med Concentration	
WHAT	WHEN	WHAT	WHEN
_____	ENGL 101/INDS 106* w/ C (2.0) [3 hrs]	_____	BIOL 115 [1 hr]
_____	ENGL 102/INDS 102* w/ C(2.0)* [3 hrs]	_____	BIOL 163 [4 hrs]
_____	COMM 211/INDS 103 w/ C(2.0) [3 hrs]	_____	BIOL 164 [4 hrs]
_____	Dept senior seminar/writing course	_____	BIOL 215 [4 hrs]
	Met by: _____ BIOL 497 [2 hrs]	_____	BIOL 250 [4 hrs]
_____	BIOL/CHEM/ENVS/PHSC/PHYS w/ lab	_____	BIOL 252 [4 hrs]
	[3 hrs]/INDS 112 [4 hrs]	_____	BIOL 254 [4 hrs]
_____	BIOL/CHEM/ENVS/PHSC/PHYS w/ lab	_____	BIOL 310 [4 hrs]
	[3 hrs]/INDS 112 [4 hrs]	_____	BIOL *** [4 hrs]
_____	MATH (except 112,141,203,205)/	_____	BIOL 325/354/374 [4 hrs]
	BIOL 215/PSYC 230/INDS 114 [3-4 hrs]	_____	BIOL 315/316/317/322 [4 hrs]
_____	RELG/INDS 111 [3-4 hrs]	_____	BIOL 305/320/344/360 [3-4 hrs]
_____	PHIL [3 hrs]/INDS 110 [4 hrs]	_____	BIOL 395/398/498 w/C (2.0) [1-2 hrs]
_____	INDS120 (Humanities) [3 hrs]	_____	BIOL 497 [2 hrs]
_____	Any literature course/INDS 113[3 hrs]		
	Fine Arts	_____	CHEM 161 [3 hrs]
	_____ ART (except 265)/	_____	CHEM 163L [1 hr]
	DANC/MUSC/THRE/ENGL 213/	OR	
	INDS 107 [3-4 hrs]	_____	CHEM 131 [3 hrs]
	OR	_____	CHEM 133L [1 hr]
	_____ MUSC/THRE [2 hrs]	_____	CHEM 132 [3 hrs]
	_____ same discipline [1 hr]	_____	CHEM 134L [1 hr]
	OR	_____	CHEM 221 [3 hrs]
	_____ MUSC/THRE [1 hr]	_____	CHEM 223L [1 hr]
	_____ same discipline [1 hr]		
	_____ same discipline [1 hr]	_____	55-60 semester hours
_____	HIST 100 or 200 level except HIST 201/	_____	CHEM 222 [3 hrs]
	or INDS 117 [3-4hrs]	_____	CHEM 224L [1 hr]
_____	CJUS/ECON/GEOG/GNST/POLS/PSYC/		
	SOCI [3hrs]/INDS 104 [4 hrs]	Three courses from the following (2 must include a lab)	
_____	US Cultural Studies [3 hrs]/INDS 109 [4 hrs]	_____	BIOL *305/325/354/360/374/388/488/
_____	Non-Western Cultural Studies [3 hrs]/	_____	CHEM 350+351L/CHEM 352+353L/388/488 [3-4hrs]
	INDS 108 [4 hrs]	_____	BIOL 305/325/354/360/374/388/488/
_____	EXSC 110/120/121/130/201/240	_____	CHEM 350+351L/CHEM 352+353L/388/488 [3-4hrs]
	[3 hrs]/INDS 105 [4 hrs]	_____	BIOL 305/325/354/360/374/388/488/
		_____	CHEM 350+351L/CHEM 352+353L/388/488 [3-4hrs]
_____	120 semester hours required for graduation		

*Enter NA (not applicable) if waived upon admission or if completing the honors program.

*no lab

➤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.

➤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.