## BIOLOGY MAJOR - Pre Medicine (BIOLPM.BS)

Required Courses		Hrs.	Prereq.	Rec.Yr.	
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	C- or better in BIOL 163	Fr	
BIOL 215	Biostatistics	4	100 level math placement or completion of DEVL 070; C- or better in BIOL 164	Soph	
DIOI 050	Counties	4	C- or better in BIOL 163,164 for Bio maj;	Soph	
BIOL 250	Genetics	4	C- or better in BIOL 163, for Biochem maj;	СОРП	
			CHEM 221, 223L highly recommended		
			C- or better in BIOL 163, 164	Soph	
BIOL 252	Physiology	4			
BIOL 254	Research Methods in Biology	4	C- or better in BIOL 163, 164, 215, 252 for Bio Maj; C- or better in MATH 115, ENVS 130 for Env Sci	ООРП	
BIOL 310	Ecology	4	BIOL 254, CHEM 161, 163L	Jr/Sr	
BIOL ***	Biology elective	4		Soph-Sr	
	ourse selected from:				
BIOL 315	Botany	4	BIOL 215, 254	Jr	
BIOL 316	Vertebrate Zoology	4	BIOL 254	Jr	
	Invertebrate Zoology	4	BIOL 163, 164	Jr	
BIOL 317		4	BIOL 215, 254	Jr	
BIOL 322	Mammalogy	7	5102 210, 201		
	urse selected from:	3	BIOL 151, 152	Jr	
BIOL 305	Toxicology	4	BIOL 254	Jr	
BIOL 320	Animal Behavior	3	BIOL 250	Jr	
BIOL 344	Evolution	4	BIOL 250; CHEM 221, 223L	Jr	
BIOL 360	Principles of Microbiology	4	DIOC 200, OF IEW 221, 2202		
	urse selected from:	4	BIOL 250	Jr/Sr	
BIOL 325	Molecular Embryology	4	BIOL 250, CHEM 221, 223L	Jr/Sr	
BIOL 354	Molecular Cell Biology	4	BIOL/CHEBI/CHEM/EXSC major;	Jr	
BIOL 374	Immunology	4		01	
		4	CHEM 221, 223L	Jr	
BIOL 395	Biology Internship	1	BIOL 254		
	<u>OR</u>	4.0	BIOL 254; CHEM 221, 223L	Jr/Sr	
BIOL 398/498	Biology Research	1-2	Sr Stand or P/Faculty	Sr	
^BIOL 497	Seminar	2	Si Stand of Firacuity	01	
0.1514.404	A   Con Cham for Soi Majors	3	HS Chemistry and placement	Fr/Soph	
CHEM 161	Accel Gen Chem for Sci Majors	3	or CHEM 105, 107L; Coreq CHE 163L		
	A LO OL CA CA Majara Lab	1	HS Chemistry and placement	Fr/Soph	
CHEM 163L	Accel Gen Chem for Sci Majors Lab		or CHEM 105, 107L; Coreq CHEM 161		
	OR O Serial Mail	3	Coreq CHEM 133L	Fr/Soph	
CHEM 131	General Chemistry Sci Maj I	er of high school chemist	ry or one semester of college chemistry equivalent to	CHEM 105/107L or	
*Prerequi	ISITE: Must have passed at least one year	CT score of 20. MATH SA	T score of 500, grade of C or better in one of the class	es: MATH 103, 110,	
112, 115,		.,			
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;	Fr/Soph	
CITEIVI 132	General Grieffickly Golffing		Coreq CHEM 134L		
CHEM 1341	General Chemistry Sci Maj II Lab	1	Coreq CHEM 132		
CHEM 134L	General Grieffistry Gorwa, in East				
OLIEM 221	Organic Chemistry I	3	C- or better in CHEM 161,163L or 131,	Soph	
CHEM 221	Organic Orientistry i		133L,132, 134L;Coreq CHEM 223L		
011214 0001	Organic Chemistry Lab	1	C- or better in CHEM 161,163L or 131,		
CHEM 223L	Organic Chemistry Lab		133L132, 134L; Coreq CHEM 221		
			1002102, 10.12, 00.11		
		55-60 total hours			
Pre-Med Concent	ration (15 hours)				
	Organic Chemistry II	3	C- or better in CHEM 221, 223L; Coreq CHEM 224	LSoph	
CHEM 222	Organic Chemistry II Lab	1	C- or better in CHEM 221, 223L; Coreq CHEM 222	? Soph	
CHEM 224L	yond the core of which two must inc	lude a lab at 300 level:			
	Molecular Cell Biology	4	BIOL 250, CHEM 222, 224L	Jr/Sr	
BIOL 354	Principles of Microbiology	4	BIOL 250; CHEM 221, 223L	Jr	
BIOL 360		3	BIOL/BIOCHEM/CHEM/EXSC maj; CHEM 221, 223L	Jr/Sr	
BIOL 374	Immunology	3			
BIOL 388/488	Approved special topics	3/1	C- or better CHEM 222, 224L or BIOL 354	Jr/Sr	
CHEM 350/351L	Biochemistry I & Lab	3/1	C- or better CHEM 350, 351L; Coreq CHEM-353L	Jr/Sr	
CHEM 352/353L	Biochemistry II & Lab	3		Jr/Sr	
CHEM 388/488	Approved special topics	3			
EXSC 240	Fund. Of Human Nutrition	3			
EXSC 303	Org. & Adm. Health Professions	3			
HSCI 210	Intro. To Epidemiology e expected to take BIOL 163,164, 215, 250, 252 and		e vear.		
Biology majors ar     Majors must take	e expected to take BIOL 163,164, 215, 250, 252 and required Chemistry courses in their freshman or soph	homore year.	발발되는 어떻게 하다고 하나 나는 나는 것		
<ol> <li>Majors must take</li> <li>Be aware that mo</li> </ol>	ost upper division courses are offered every other year	ar.			

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.

<sup>5.</sup> Completion of BIOL-395, 398 or 4 ^Satisfies advanced writing requirement

NAME:	
-------	--

## B.S. Degree: Biology Major (for students entering in Fall 2022/Spring 2023) 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 '20.

		General Education		D:-1-	
WHAT	WHEN		WHA		
	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:		T 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 325/354/374 [4 hrs] BIOL 325/354/374 [4 hrs] BIOL 315/316/317/322 [4 hrs] BIOL 305/320/344/360 [3-4 hrs] BIOL 395/398/498 w/C (2.0) [1-2 hrs] BIOL 497 [2 hrs]  CHEM 161 [3 hrs] CHEM 163L [1 hr]  OR  CHEM 133L [1 hr]  CHEM 134L [1 hr]  CHEM 221 [3 hrs] CHEM 134L [1 hr]  CHEM 223L [1 hr]  The CHEM 224L [1 hr]  On the following (2 must include a lab) BIOL *305/325/354/360/374/388/488/
			CHEM 350+351L/CHEM 352+353L/388/488 [3-4hrs] BIOL 305/325/354/360/374/388/488/ CHEM 350+351L/CHEM 352+353L/388/488 [3-4hrs]		
			 *no l:	ab	BIOL 305/325/354/360/374/388/488/ CHEM 350+351L/CHEM 352+353L/388/488 [3-4hrs]

➤ 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.