

## BIOCHEMISTRY MAJOR: 4 Year Plan

Major Requirements (credits) F (Fall) Sp (Spring). Bio/Chem Credit 46-50; Total Credits 62-66

COURSES: INTRO/FDN	LABS: FDN/IN-DEPTH	INDEPTH (UD)	ADDITIONAL	
CHEM 125 (4) F, Sp Intro Chem Struct/Prop	CHEM 201 (0,1) F, Sp Purif/Struct L1	BIOL 311 (4) Cell Biol	BCHM 375 (2) Capst. Sp Sr	BCHM XXX (0) Sp Sr Yr
CHEM 250 (4) F, Sp Rx Nucleo/Electro I (R1)	CHEM 202 (0,1) F, Sp Purif/Chroma L2	BIOL/BCHM 317 (4) Biochemistry	<b>SUPPORTING COURSES</b>	
CHEM 251 (4) F, Sp Rx Nucleo/Electro 2 (R2)	CHEM 203 (0,1) F, Sp Synthesis	BIOL 318 (4) Molecular Genetics	MATH 119 (4) F, Sp Calculus 1	
CHEM 255 (4) F, Sp Macro Chem Analysis	CHEM 205 (0,1) F, Sp Measurement	Biochem Elective (4) <sup>b</sup> (1 x 4) OR (2 x 2) credit	MATH 120 (4) F, Sp Calculus 2	
CHEM 315 (4) F, Sp Advanced Rx (R3)	(plus lab experience from BIOL, PHYS courses)		PHYS 105 (4) or 191 (4) F	
BIOL 101 (4) F <sup>a</sup> Foundations of Biology			PHYS 106 (4) or 200 (4) Sp	
BIOL 201 (4) Sp <sup>a</sup> Intermed. Cell Biol. & Gen.				

a. Courses replace old BIOL 121 & BIOL 221. b. Choices for Biochem Elective listed on other side.

### EXAMPLE SCHEDULE

Fall, \_\_ YR 1

Spring, \_\_ YR 1

4 CREDIT COURSES	0,1 CREDIT CHEM LABS	4 CREDIT COURSES	0,1 CREDIT CHEM LABS
CHEM 125 (4)	CHEM 201 (0,1)	CHEM 250 (4)	CH 202 (0,1)
BIOL 101 (4) (old: 121)		BIOL 201 (4) (old: 221)	
MATH 119 (4)		MATH 120 (4)	
FYS (4)		FYS (4)	

Fall, \_\_ YR 2

Spring, \_\_ YR 2

4 CREDIT COURSES	0,1 CREDIT LABS	4 CREDIT COURSES	0,1 CREDIT LABS
CHEM 251 (4)	CHEM 203 (0,1)	CHEM 315 (4)	CHEM 205 (0,1)
PHYS 105 OR 191 (4)		PHYS 106 OR 200	
SS (4)		CHEM 255 (4)	
LANG (4)		LANG (4)	

Fall, \_\_ YR 3

Spring, \_\_ YR 3

4 CREDIT COURSES	0-2 CREDIT COURSES	4 CREDIT COURSES	2 CREDIT COURSES
BIOL 311 (4)		BIOL 318 (4)	
BIOL 317 (4)		HUM (4)	
HUM (4)		THEO-L	

Fall, \_\_ YR 4

Spring, \_\_ YR 4

4 CREDIT COURSES	0-2 CREDIT COURSES	4 CREDIT COURSES	0-2 CREDIT COURSES
THEO-U (4)		FA	BCHM 375 (2)
ETHICS (4)			BCHM XXX (0)
BIOL XXX (4) <sup>a</sup> OR	CHEM YYY (2) <sup>a</sup>		
	AND CHEM YYY (2) <sup>a</sup>		

a. See other side for choices.

#### Common Curriculum Requirements

FA	SS	FYS	Ethics
HUM	THEO-L	Language	
HUM	THEO-U	Gender	Experiential Intercultural

**Biochemistry Electives (4 credits required)**

<i>Course number (cred)</i>	<i>Description</i>	<i>Course Number (cred)</i>	<i>Description</i>
BIOL 307 (4) F	Microorganisms	CHEM 323 (2) tba	Topics in Biochemistry
BIOL 319 (4) Sp	Immunology	CHEM 347 (2) F15, F16, F17	Chemical Biology
BIOL 323 (4) Sp	Animal Physiology	CHEM 352 (2) S16, S18	Signal Transduction
BIOL 329 (4) tba	Histology	CHEM 353 (2) S17	Xenobiotic Metabolism
BIOL 339 (4) Sp	Evolution	CHEM 358 (2) S16, S18	Biomacromolecules
BIOL 373K (4) tba	Neurobiology		
BIOL 373L (4) tba	Mathematical Modelling		

## Template: Four Year Plan

Fall,      YR 1

Spring,      YR 1

4 CREDIT COURSES	0,1 CREDIT CHEM LABS	4 CREDIT COURSES	0,1 CREDIT CHEM LABS

Fall,      YR 2

Spring,      YR 2

4 CREDIT COURSES	0,1 CREDIT LABS	4 CREDIT COURSES	0,1 CREDIT LABS

Fall,      YR 3

Spring,      YR 3

4 CREDIT COURSES	0-2 CREDIT COURSES	4 CREDIT COURSES	2 CREDIT COURSES

Fall,      YR 4

Spring,      YR 4

4 CREDIT COURSES	0-2 CREDIT COURSES	4 CREDIT COURSES	0-2 CREDIT COURSES

### Common Curriculum Requirements

FA	SS	FYS	Ethics	
HUM	THEO-L	Language		
HUM	THEO-U	Gender	Experiential	Intercultural