



## BIOCHEMISTRY EMPHASIS

**MUST HAVE A MINIMUM OF A C- TO COUNT**

### REQUIRED COURSE

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
CHEM 2320	ORGANIC CHEMISTRY II	4	CHEM 2310 OR CHEM 2311	ALL	

### BIOCHEMISTRY COURSES: COMPLETE TWO COURSES

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
BIOL 3520	BIOLOGICAL CHEMISTRY II	3	BIOL 3510 OR CHEM 3510	S	
BIOL 3515	BIOLOGICAL CHEMISTRY LAB	3 [L1]	CO-REQ: BIOL 3510 OR CHEM 3510	S	
BIOL 3525	MOLECULAR BIOLOGY OF DNA LAB	3 [L2]	RECOMMENDED BIOL 3510	F	

### BIOCHEMISTRY LABS: COMPLETE TWO LABS

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
CHEM 2315	ORGANIC CHEMISTRY LAB	2	CHEM 2310 OR 2311	ALL	
BIOL 3515	BIOLOGICAL CHEMISTRY LAB	3 [L1]	CO-REQ: BIOL 3510 OR CHEM 3510	S	
BIOL 3525	MOLECULAR BIOLOGY OF DNA LAB	3 [L2]	RECOMMENDED BIOL 3510	F	
CHEM 5750	ADVANCED CHEMICAL BIOLOGY	2 [L1]	RECOMMENED BIOL 3510 OR CHEM 3510	S	

### GENERAL LABS: COMPLETE TWO COURSES

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
BIOL 2115	BASIC TECHNIQUES LAB	2 [L2]	LIMITED TO BIOURP STUDENTS. INSTRUCTOR CONSENT	CHECK SCHEDULE	
BIOL 3215	CELL BIOLOGY LAB	2 [L1]	CO-REQ: BIOL 2020 OR 2021	CHECK SCHEDULE	
BIOL 3246	BASIC CELLULAR NEUROBIOLOGY LAB	2 [L1]	N/A	CHECK SCHEDULE	
BIOL 4955/4995	INDIVIDUAL RESEARCH/BIOLOGY HONORS RESEARCH	1-3 [L1-L2]	INSTRUCTOR CONSENT	ALL	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	BIOL 2010 AND 2030	F	

### BIOPHYSICS COURSES: COMPLETE ONE COURSE

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
BIOL 3550	PHYSICAL PRINCIPLES IN BIOLOGY	3	BIOL 1210 AND CHEM 1210 OR 1211 OR PHYS 2010 OR 2110 OR 2210 OR 3210 AND MATH 1170 OR 1210 OR 1250 OR 1310	F	
BIOL 5810	NANOSCIENCE	3	CHEM 1220 OR 1221 AND PHYS 2220	S	

### MOLECULAR GENETICS COURSES: COMPLETE ONE COURSE

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
BIOL 5120	GENE EXPRESSION	3	BIOL 2020 OR 2021	F	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	BIOL 2010 AND 2030	F	
BIOL 5140	GENOME BIOLOGY	3	BIOL 2020 OR 2021 AND BIOL 2030	S	
BLCHM 6400	GENETIC ENGINEERING	2	BIOL 3510 OR EQUIVALENT	F	