



CELL & MOLECULAR EMPHASIS

ALL CLASSES MUST BE PASSED WITH A C- OR BETTER TO COUNT

SECTION ONE: COMPLETE 3 OF THE FOLLOWING (ONE MUST BE 5000-LEVEL)

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
BIOL 3210	GENERAL & PATHOGENIC MICROBIOLOGY	3	BIOL 2020 OR 2021 AND CHEM 1110 OR 1210 OR 1211	F/S	
BIOL 3230	DEVELOPMENTAL BIOLOGY	3	BIOL 2020 OR 2021 AND 2030	S	
BIOL 3240	INTRO TO CELLULAR NEUROBIOLOGY	3	BIOL 2020 OR 2021	F	
BIOL 3370	MICROBIAL BIOLOGY	3	BIOL 2020 OR 2021	S	
BIOL 3520	BIOLOGICAL CHEMISTRY II	3	BIOL 3510 OR CHEM 3510	S	
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 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	BIOL 2010 AND 2030	F	
BIOL 5030	BASIC IMMUNOLOGY	3	BIOL 2020 OR 2021	F	
BIOL 5050	MECHANISMS OF BACTERIAL PATHOGENESIS	2	BIOL 2020 OR 2021	CHECK SCHEDULE	
BIOL 5110	MOLEC BIOLOGY & GENETIC ENGINEERING	3	BIOL 2030	CHECK SCHEDULE	
BIOL 5120	GENE EXPRESSION	3	BIOL 2020 OR 2021	F	
BIOL 5140	GENOME BIOLOGY	3	BIOL 2020 OR 2021 AND BIOL 2030	S	
BIOL 5210	CELL STRUCTURES & FUNCTION	3	BIOL 2020 OR 2021	S	
BIOL 5510	EVOLUTIONARY DEVELOPMENTAL BIOLOGY	3	BIOL 2030	F	
BIOL 5810	NANOSCIENCE (CHEM 5810)	3	CHEM 1220 OR 1221 AND PHYS 2220	S	

SECTION TWO: COMPLETE 2 OF THE FOLLOWING CELL & MOLECULAR LABS

COURSE	TITLE	CREDITS	PREREQUISITES C- OR BETTER	SEMESTER	TAKING WHEN
BIOL 2115	BASIC TECHNIQUES LAB	2 [L2]	LIMITED TO BIURP STUDENTS. INSTRUCTOR CONSENT	CHECK SCHEDULE	
BIOL 3115	COMPUTER APPLICATIONS IN CELL BIOLOGY	2 [L1]	BIOL 2020 OR 2021 AND PHYS 2020 OR 2220 OR 3220	CHECK SCHEDULE	
BIOL 3125	MOL TOOLS FOR EVOL & POP BIOLOGY	3 [L2]	BIOL 2010 AND 2030	S/ODD	
BIOL 3205	GENERAL MICROBIOLOGY LAB	1 [L1]	CO-REQ BIOL 3210 OR 3370 OR PATH 3100	F/S	
BIOL 3215	CELL BIOLOGY LAB	2 [L1]	CO-REQ: BIOL 2020 OR 2021	CHECK SCHEDULE	
BIOL 3235	DEVELOPMENTAL BIOLOGY LAB	3 [L1]	CO-REQ: BIOL 3230	CHECK SCHEDULE	
CHEM 5750	ADVANCED CHEMICAL BIOLOGY LABORATORY	2 [L1]	RECOMMENED CHEM 3510	S	
BIOL 3246	BASIC CELLUAR NEUROBIOLOGY LAB	2 [L1]	N/A	CHECK SCHEDULE	
BIOL 3515	BIOLOGICAL CHEMISTRY LAB	3 [L1]	CO-REQ: BIOL 3510 OR CHEM 3510	S	
BIOL 3525	MOLECULAR BIOLOGY OF DNA LAB	3 [L2]	RECOMMENED BIOL 3510	F	
BIOL 4955/4995	INDIVIDUAL RESEARCH/BIOLOGY HONORS RESEARCH	3 [L1-L2]	INSTRUCTOR CONSENT AND MEMBER OF HONORS COLLEGE	ALL	
BIOL 5255	PROKARYOTIC GENETICS	3 [L2]	RECOMMENED BIOL 2020 OR 2021 AND BIOL 2030	F	
BIOL 5275	MICROBIAL DIVERSITY, GENOMICS & EVOLUTION	4 [L1]	BIOL 2010 AND 2030	F	