

DEPARTMENT OF NATURAL SCIENCES
MAJOR: BIOLOGY (BIOMEDICAL SCIENCES CONCENTRATION) (30 HOURS)

NO MINOR REQUIRED

ADDITIONAL HOURS REQUIRED (16 HOURS)

TOTAL HOURS TO COMPLETE: 46 HOURS

BIOLOGY (BIOMEDICAL SCIENCES CONCENTRATION) MAJOR REQUIREMENTS (30 HOURS)				
	COURSE NAME	HRS	TERM	PREREQUISITES
BIOL 203	HUMAN ANATOMY AND PHYSIOLOGY I	4	FALL, SPRING	BIOL 101 or BIOL 111 with a grade of "C" or higher; or SEE CATALOG
BIOL 204	HUMAN ANATOMY AND PHYSIOLOGY II	4	FALL, SPRING, and SUMMER (variable)	BIOL 203 with a grade of "C" or higher, or Permission from Instructor
BIOL 352	CELL BIOLOGY	4	FALL	BIOL 111 and CHEM 112 with a minimum grade of "C."
BIOL 422	BIOCHEMISTRY (cross-listed with CHEM 422)	4	FALL	CHEM 202 with minimum grade of "C."
CHOOSE ONE	SELECT 4 CREDIT HOURS OF ANIMAL OR PLANT SCIENCE FROM THE FOLLOWING:			
BIOL 201	INVERTEBRATE ZOOLOGY	4	FALL (ODD YEARS)	BIOL 111
BIOL 202	VERTEBRATE ZOOLOGY	4	SPRING (EVEN YEARS)	BIOL 111
BIOL 207	GENERAL BOTANY	4	FALL, SPRING	BIOL 111
BIOL 315	GENERAL AND COMPARTATIVE ANIMAL PHYSIOLOGY	4	AS NEEDED	BIOL 111 and CHEM 201
BIOL 320	PLANT SYSTEMATICS	4	AS NEEDED	BIOL 207 strongly recommended
BIOL 391	BIOLOGY SEMINAR (WI3 & PRE)	1	FALL, SPRING	8 Credit Hours in Biology at or above the 200-level
BIOL 491	BIOLOGY SEMINAR (WI3)	1	FALL, SPRING	BIOL 391, and 12 Credit Hours in Biology at or above the 200-level
CHOOSE TWO	SELECT 8 CREDIT HOURS OF BIOLOGY ELECTIVES FROM THE FOLLOWING:			
BIOL 206	GENERAL MICROBIOLOGY	4	SPRING	BIOL 111 or Permission from Instructor
BIOL 301	GENETICS	4	SPRING	BIOL 111 and CHEM 201
BIOL 310	NUTRITION	4	AS NEEDED	BIOL 111 and CHEM 201, or Permission from Instructor
BIOL 335	PATHOPHYSIOLOGY	4	AS NEEDED	BIOL 203 and BIOL 204
BIOL 402	ECOLOGY	4	AS NEEDED	BIOL 111 and either BIOL 201, BIOL 202, BIOL 207, or BIOL 320
BIOL 404	DEVELOPMENTAL BIOLOGY	4	AS NEEDED	CHEM 201
BIOL 411	IMMUNOLOGY	4	SPRING (ODD YEARS)	CHEM 202
	TOTAL MAJOR HOURS	30		

ADDITIONAL HOURS REQUIRED (16 HOURS)*				
	COURSE NAME	HRS	TERM	PREREQUISITES
BIOL 222	MEDICAL TERMINOLOGY**	1	SPRING	BIOL 203
CHEM 112	GENERAL CHEMISTRY II**	4	SPRING	CHEM 111 with a minimum grade of "C."
CHEM 201	ORGANIC CHEMISTRY I**	4	FALL	CHEM 112 with a minimum grade of "C."
CHEM 202	ORGANIC CHEMISTRY II**	4	SPRING	CHEM 201 with a minimum grade of "C."
MATH 105	FUNDAMENTALS OF STATISTICS AND PROBABILITY**	3	FALL, SPRING	
TOTAL ADDITIONAL HOURS		16		

NOTE: BIOL 111 and CHEM 111 are prerequisites for courses required in the major and will fulfill General Education requirements; PSYC 201 and MATH 151 are required to fulfill the General Education requirements; Pre-Professional candidates (preparing for medical school, pharmacy school, or physical therapy school) should take PHYS 203 and PHYS 204 in preparation for profession admissions tests.

**NOTE: Biology Majors electing to complete a Chemistry minor will earn credit for CHEM 112, CHEM 201, CHEM 202, and MATH 151 as part of that minor; Biology majors electing to complete a Forensics minor will earn credit for CHEM 112 as part of that minor; Biology majors electing to complete and Environmental Science minor will earn credit for CHEM 112 as part of that minor.*

***NOTE: Additional Requirements must be completed with a grade of "C" or higher.*