

Bachelor of Science

Biology Major Biomed Sci PreMed MKEAP

Major Code BI21

CIP Code: 260101

Cr Hrs

General Education CORE 42 Requirements 42*		32
Area 1A	Social & Behavioral Sciences PSY 100, SOC 110 [^]	6
Area 1B	Civics Engagement PSC 120 [^]	3
Area 2A	Written Communication	6
Area 2B	Oral Communication COMM 100 [^]	3
Area 3A	Natural Science Non-Lab (BIO 108 or CHEM 140)	
Area 3B	Natural science With Lab (PHYS 160)	
Area 4	Mathematics (MATH 140 or 150)	
Area 5A	Humanities ENG 250, modern language [^]	6
Area 5B	Fine Arts ART 110 " Art of Observation " [^]	3
Area 5C	Global Competencies Modern language [^]	3
Area 5D	Health and Wellness	2
[^]Suggested General Education Core 42 Requirements for MKEAP		
BIO 100	Freshman Seminar ^{**}	1
Required Courses - Biomedical Sciences Core		83
BIO 108	Principles of Biology I	3
BIO 109	Principles of Biology I Lab	1
BIO 111	Principles of Biology II	4
BIO 210	Molecular Cell Biology	4
BIO 231	General and Medical Microbiology	5
BIO 301	Human Physiology	4
BIO 305	Genetics	4
Bio 308	Pathophysiology	3
BIO 331	Comparative Vertebrate Anatomy	5
BIO 390	Research & Statistical Methods in Biology	3
BIO 400	Biology Capstone	1
BIO 433	Histology	4
BIO 456	Immunology	3
MATH 140 or MATH 150 5 cr hrs OR MATH 130/135 Alegbra & Trig (6 cr hrs)		5
CHEM 140	General Chemistry I	3
CHEM 141	General Chemistry I Lab	2
CHEM 142	General Chemistry II	5
CHEM 301	Organic Chemistry I	5
CHEM 302	Organic Chemistry II	5
CHEM 350	Biochemistry I	3
CHEM 352	Biochemistry II	3
PHYS 160	Elementary College Physics I With Lab	4
PHYS 162	Elementary College Physics II	4
BIO	Electives see below for options (200 level or above)	4
See list for applicable courses		
Total Hours	Must include at 39 upper division (300-400) hrs	120

*Required courses in Biology, Chemistry/Physics and Math meet Gen Ed Core 42 Areas 3,4 (10 hours)

**Degree Requirement H: BIO 100 is specific to the YTL program (also met by HNRS 101 or UE 100)

***MKEAP students will participate in international study experiences. Topics may vary as well as the specific semester in which an international opportunity is offered. Students may apply for travel grants for this course; travel grants are not guaranteed and students will be responsible for paying expenses. If a student cannot participate in an international study course, an alternate global experience must be approved as part of the curriculum.