

Bachelor of Science 2022-23**Biomedical Sciences****Major Code BI11****CIP Code: 260102**

Cr Hrs

General Education CORE 42 Requirements 42*		32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civics Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	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	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	First Year Experience**	1
Required Courses - Biomedical Sciences Core		70
BIO 108	Principles of Biology I	3
BIO 109	Principles of Biology I Lab	1
BIO 111	Principles of Biology II	4
BIO 201 Human Anatomy OR BIO 331 Comparative Vertebrate Anatomy		5
BIO 210	Molecular Cell Biology	4
BIO 231	General and Medical Microbiology	5
BIO 301	Human Physiology	4
BIO 305	Genetics	4
BIO 389	Fund. Of Experimental Design & Statistics	3
BIO 400	Biology Capstone	1
MATH 140 Algebra & Trig OR MATH 150 Calculus w/Analytic Geome		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
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)	11
See list for applicable courses		
Electives		6
Total Hours	Must include at 39 upper division (300-400) hrs	120

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

**Degree Requirement H (UE 100), may also be met by HNRS 101 (2 credit hours).

@ MATH 130 plus MATH 135 equals MATH 140

Applicable courses for BIO Electives

BIO 201 Human Anatomy OR BIO 331 Comparative Vertebrate Anatomy	5
BIO 220 CURE (Classroom-based Undergraduate Research Experience)	1-5
BIO 240 Radiation Biology	3
BIO 297 Independent Research in Biology	1-3
BIO 298 Topics in Biology	1-5
BIO 299 Independent Study in Biology	1-5
BIO 308 Pathophysiology	3
BIO 350 Techniques in Microbiology	2
BIO 352 Biomes	1-4
BIO 361 Parasitology	4
BIO 362 Virology	3
BIO 370 Environmental Health and Safety	3
BIO 375 Disease Vector Control	1
BIO 380 Epidemiology	3
BIO 390 Research and Statistical Methods in Biology	3
BIO 412 Mammalogy	4
BIO 415 Herpetology	4
BIO 420 Advanced CURE (Classroom-Based Undergraduate Research Experience)	1-5
BIO 433 Histology	4
BIO 442 Pathogenic Bacteriology	5
BIO 445 Reproductive Physiology	3
BIO 455 Laboratory Assistant Practicum	1-2
BIO 456 Immunology	4
BIO 464 Advanced Cell Biology	3
BIO 475 Advanced Human Dissection	4
BIO 491 Internship in Biology	0-4
BIO 492 Service Learning in Biology	1-3
BIO 495 Roots of Science	2-3
BIO 497 Advanced Independent Research in Biology	1-3
BIO 498 Advanced Topics in Biology	1-5
BIO 499 Advanced Independent Study in Biology	1-5