

SCHOOL OF SCIENCE AND ENGINEERING

PROGRAM OF STUDY IN BIOLOGY

CONCENTRATION: **PREMED**

FRESHMAN YEAR

<i>First Semester</i>		<i>SCH</i>	<i>Second Semester</i>		<i>SCH</i>
ENG 131	Analysis & Argumentation	3	ENG 132	Information, Literacy & Research	3
MATH 138	College Algebra	3	MATH 140	Precalculus	4
*BIO 117L	Principles of Biology I Lab	1	*BIO 118L	Principles of Biology II Lab	1
*BIO 137	Principles of Biology I	3	*BIO 138	Principles of Biology II	3
CHEM 117L	Principles of Chemistry I Lab	3	CHEM 118L	Principles of Chemistry II Lab	1
CHEM 137	Principles of Chemistry I	1	CHEM 138	Principles of Chemistry II	3
STEM 111	The College Experience I	1	STEM 112	The College Experience II	1
STEM 130	History of Biology	3	HIST 130	African American History	3
Total		18	Total		19

SOPHOMORE YEAR

<i>First Semester</i>		<i>SCH</i>	<i>Second Semester</i>		<i>SCH</i>
ENG 237	Oral Communication	3	*BIO 218L	Genetics Lab	1
MATH 143	Calculus I	4	*BIO 238	Genetics	3
CHEM 217L	Organic Chemistry I Lab	1	CHEM 218L	Organic Chemistry II Lab	1
CHEM 237	Organic Chemistry I	3	CHEM 238	Organic Chemistry II	3
STEM 221	Professional Pathways Dev. In Biological Sciences	2	CSC 230/STEM 233/ MATH 236	Visual Basic or Data Analysis or Probability & Statistics	3
*STEM 230/SCI 230	Scientific Writing or Biomedical Research Techniques	3	SCI 238	Undergrad. Research in Bio.	3
	Global and Intercultural	3	FR/SP/AR 233	Intermediate Foreign Language Health and Wellness	3 2
Total		19	Total		19

JUNIOR YEAR

<i>First Semester</i>		<i>SCH</i>	<i>Second Semester</i>		<i>SCH</i>
*BIO 311L	Comparative Anatomy Lab	1	*BIO 315L	Human Anatomy & Physi Lab	1
*BIO 331	Comparative Anatomy	3	*BIO 335	Human Anatomy & Physiology	3
	Global and Intercultural	3	*BIO 319L	Micobiology Lab	1
PHSY 211L	General Physics I Lab	1	*BIO 339	Micobiology	3
PHYS 231	General Physics I	3	PHYS 212L	General Physics II Lab	1
CHEM 319L	Biochemistry Lab	1	PHYS 232	General Physics II	3
CHEM 339	Biochemistry	3	STEM 328	Career Entrance Exams Prep	2
Total		15	Total		14

SENIOR YEAR

<i>First Semester</i>		<i>SCH</i>	<i>Second Semester</i>		<i>SCH</i>
*BIO 421	Senior Research in Biology I	2	*BIO 422	Senior Research in Biology II	2
*BIO 440	Histology Lecture/Lab	4	*BIO 418L	Cell and Molecular Biology Lab	1
*BIO 412L	Immunology Lab	1	*BIO 438	Cell and Molecular Biology Elective	3 3
*BIO 432	Immunology	3	STEM 331 or HON 340	Ethics in Science or Intl. Explor I	3
*BIO	Biology Elective	2			
Total		12	Total		12

Total SCH 128
SCH in Major* 45

*Major courses require a "C" or better.

BIO Electives = BIO, CHEM, EHS, SCI, or STEM 200 level or above in Biology, Chemistry, or Environ. Health Science