

2019

Bachelor of Science-Biology 2019-2020

Nova Southeastern University

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FIRST YEAR SEMINAR		
Course	Credits	Frequency
UNIV 1000: First Year Seminar	3	FW
Total First Year Seminar Credits	3	

GENERAL EDUCATION REQUIREMENTS		
Area/Course	Credits	Frequency
<u>Written Composition</u>		
6 credits at or above COMP 1500		
Open Written Communication	3	FW
Open Written Communication	3	FW
<u>Mathematics</u>		
6 credits at or above MATH 1040		
Satisfied by Major		
Satisfied by Major		
<u>Arts & Humanities</u>		
6 credits in HIST, ARTS, PHIL, HUMN, LITR, THEA, FILM, MUSC, DANC, WRIT, foreign language		
Satisfied by Major		
Satisfied by Major		
<u>Social & Behavioral Sciences</u>		
6 credits in PSYC, SOCL, ANTH, ECN, COMM, GEOG, GEST, INST, POLS		
Open Social & Behavioral Sciences	3	FW
Open Social & Behavioral Sciences	3	FW
<u>Science</u>		
6 credits in BIOL, MBIO, CHEM, SCIE, ENVS, PHYS		
Satisfied by Major		
Satisfied by Major		
Total General Education Credits	12	

NOTE: Some General Education courses may also fulfill major requirements.

OPEN ELECTIVES		
Total Open Electives Credits	29	

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CONCENTRATIONS		
There are no specific concentrations noted for this major		
Total concentration credits		

MAJOR REQUIREMENTS		
Core Courses	Credits	Frequency
BIOL 1500: Biology I/Lab	4	FW
BIOL 1510: Biology II/Lab	4	FW
BIOL 3600: Genetics/Lab	4	FW
CHEM 1300: General Chemistry I/Lab	4	FW
CHEM 1310: General Chemistry II/Lab	4	FW
CHEM 2400: Organic Chemistry I/Lab	4	FW
CHEM 2410: Organic Chemistry II/Lab	4	FW
Any LITR course	3	FW
MATH 2020: Applied Statistics	3	FW
MATH 2100: Calculus I	4	FW
<u>PHYS 2350: General Physics I/Lab (4 credits)</u> or	4	FW
<u>PHYS 2400: Physics I/Lab (4 credits)</u>		FW
AND		
<u>PHYS 2360: General Physics II/Lab (4 credits)</u> or	4	FW
<u>PHYS 2500: Physics II/Lab (4 credits)</u>		FW
Select one 3000-level PHIL course from the following:	3	
<u>PHIL 3010: Ethical Issues in Communication (3 credits)</u>		W
<u>PHIL 3180: Biomedical Ethics (3 credits)</u>		FW
<u>PHIL 3200: Ethics and Sport (3 credits)</u>		F
<u>PHIL 3220: Philosophy of Science (3 credits)</u>		FW
<u>PHIL 3360: Environmental Ethics (3 credits)</u>		W
Total Core Course Credits	49	
Major Electives Credits	27	
Select 27 credits from the following [at least 16 credits must be BIOL 3000+ or 4000+ courses with at least one of these being a BIOL course with a lab (4 credits):		
<u>Any 3000/4000-level BIOL course(s), excluding BIOL 3600*</u>		
<u>BIOL 2600: Medical Terminology (3 credits)</u>		FW
<u>CHEM 3650: Biochemistry/Lab (4 credits)</u>		FW
<u>MATH 2001: Introduction to Mathematical Models in Biology (3 credits)</u> or		U
<u>MATH 2200: Calculus II (4 credits)</u> or		FW
<u>MATH 3050 Mathematics and Biology (3 credits)</u>		FE
*NOTE: Major Electives may include no more than 3 credits in total from the following:		
<u>BIOL 4900: Special Topics in Biology (3 credits)</u>		U
<u>BIOL 4950: Internship in Biology (3 credits)</u>		U
<u>BIOL 4990: Independent Study in Biology (3 credits)</u>		U
Total Major Credits	76	

TOTAL CREDITS: 120

NOTE: Click on course link for detail course information including description and prerequisite requirements

Frequency Key: F-Every Fall; W-Every Winter; FE - Even Year Fall; FO - Odd Year Fall; WE-Even Year Winter; WO-Odd Year Winter; U - Upon Contract



Halmos College of Natural Science and Oceanography
SAMPLE FOUR YEAR CURRICULUM | 2019-2020 CATALOG
Bachelor of Science - Biology (Premedical)

Freshman Year			
Semester 1 (Fall - 1)		Semester 2 (Winter - 1)	
Course	Credits	Course	Credits
UNIV 1000: First Year Seminar	3	General Education: Social and Behavioral Sciences	3
General Education: Written Composition	3	BIOL 1510: Biology II/Lab (Biology Core)	4
BIOL 1500: Biology I/Lab (Biology Core)	4	CHEM 1310: General Chemistry II/Lab (Biology Core)	4
CHEM 1300: General Chemistry I/Lab (Biology Core)	4	MATH 2100: Calculus I (Biology Core and Gen Ed. Math)	4
Total Credits	14	Total Credits	15
Sophomore Year			
Semester 3 (Fall-2)		Semester 4 (Winter -2)	
Course	Credits	Course	Credits
CHEM 2400: Organic Chemistry I/Lab (Biology Core)	4	General Education: Written Composition	3
MATH 2020: Applied Statistics (Biology Core and Gen Ed Math)	3	BIOL 3600: Genetics/Lab (Biology Core)	4
Any LITR course (Biology Core and Gen Ed: Arts and Humanities)	3	CHEM 2410: Organic Chemistry II/Lab (Biology Core)	4
General Education: Social and Behavioral Sciences	3	Biology Major Elective (recommend Calculus II)	4
Elective	3		
Total Credits	16	Total Credits	15
Junior Year			
Semester 5 (Fall-3)		Semester 6 (Winter-3)	
Course	Credits	Course	Credits
PHYS 2350: General Physics I/Lab (4 credits)		PHYS 2360: General Physics II/Lab (4 credits)	
OR	4	OR	4
PHYS 2400: Physics I/Lab (4 credits)		PHYS 2500: Physics II/Lab (4 credits)	
PHIL Course (Biology Core and Gen Ed Arts and Humanities)	3	Biology Major Elective with lab	4
Biology Major Elective (recommend Biochemistry/Lab)**	4	Elective	3
Biology Major Elective	3	Elective	3
Total Credits	14	Total Credits	14
Senior Year			
Semester 7 (Fall-4)		Semester 8 (Winter-4)	
Course	Credits	Course	Credits
Biology Major Elective with Lab	4	Biology Major Elective	3
Biology Major Elective	3	Biology Major Elective	3
Elective	3	Elective +	4
Elective	3	Elective	3
Elective	3	Elective	3
Total Credits	16	Total Credits	16
TOTAL CREDITS: 120			

NOTE: Click on course link for detail course information including description and prerequisite requirements

*NOTE: This sample plan is based on the student starting at least at the level of MATH 1250: Trigonometry.

The plan will need to be adjusted for students who begin at a lower level of MATH.

**NOTE: Students who plan to take the MCAT exam in the summer of the Junior Year are advised to complete CHEM 3650: Biochemistry/Lab as a major elective in the Junior Year.

+ This semester might be a good one in which to complete internship project hours.

++ Must complete a total of 30 credits of upper level coursework (3000 level and higher)

Major Electives***

Select 27 credits from the following [at least 16 credits must be BIOL 3000+ or

4000+ courses with at least one of these being a BIOL course with a lab (4 credits):

Any 3000/4000-level BIOL course(s), excluding BIOL 3600

BIOL 2600: Medical Terminology 3

CHEM 3650: Biochemistry/Lab 4

MATH 2001: Introduction to Mathematical Models in Biology 3

OR

MATH 2200: Calculus II 4

OR

MATH 3050 Mathematics and Biology 3

NOTE: No more than 3 credits (in total) from each of the following courses may

be applied to the major elective requirement:

BIOL 4900: Special Topics in Biology 3

BIOL 4950: Internship in Biology 3

BIOL 4990: Independent Study in Biology 3

PHIL Courses

Select 3 credits from the following:

PHIL 3010: Ethical Issues in Communication 3

PHIL 3180: Biomedical Ethics 3

PHIL 3200: Ethics and Sport 3

PHIL 3220: Philosophy of Science 3

PHIL 3360: Environmental Ethics 3

***Prerequisites may be required for major electives.