



BIOLOGY (BS)

Name:

CORE REQUIREMENTS (46 credit hours)				
SEMESTER		REQUIREMENT	Course Options	Credits
FR Year		Knight Academy	SVU 101	1
		Fresh. Writing	WRI 120	3
Complete by Sophomore Year		Philosophy	LIB 110	3
		Am. Republic	LIB 120	3
		Literature	LIB 130	3
		Civilization I	ART 210, HIS 210, HIS 260, HUM 210, PHI 210, or POL 210	3
		Civilization II	ART 215, HIS 215, HUM 215, MUS 215, PHI 215, POL 215 or THE 215	3
		Mathematics	MAT 106, 114, 115, 221, 241, 242, CSC 120, or PHI 223	3-4
		Life Science	BIO 114, 126, 201, or 212	3-4
		Physical Science	CHE 114, 201, PHY 114, 117, 126, or 201	3-4
	One of the above life or physical science courses must have a LAB component. BIO 126, PHY 117, and PHY 126 are non-lab courses.			
		Culture & Language 1	HUM 235R or Foreign Language Course (or approved F.L. equivalency exam)	3
Complete Any Year		Culture & Language 2	HUM 235R or Foreign Language Course (or approved F.L. equivalency exam)	3
		Fine Arts	ART 120, 121, or 263; ENG 220, MUS 108, 129R, 139R, 221*, 221*, 256R*, 259R*, 275R*, 350R*, THE 110, 206, or 230/330R* (*2 instances of the same ensemble needed to satisfy requirement).	3
		Social Sciences	ECN 210, EDU 200, 250, FHD 210, 250, POL 203, 223, or PSY 105	3
		Health & Wellness	Complete PER 143 or 2 credits worth of activity courses. PER 203 First Aid does not count as an activity course	2
		Adv. Writing	WRI 320 <i>*must be completed by the end of your Junior year.</i>	3

Advisor:

[illegible]

--	--	--

BACHELOR OF SCIENCE GRADUATION REQUIREMENTS

The student must do the following to receive a bachelor of arts degree:

1. Complete a minimum of 120 credit hours of study, at least 60 of which or at least the last 36 credits before graduation are at Southern Virginia. No more than 9 credit hours will be granted for internship courses.
2. Complete all requirements of the Southern Virginia Core.
3. Complete all requirements of at least one major.
4. Earn a minimum grade point average of 2.00 on all course work taken at the university.
5. Comply with all university standards, regulations, and procedures, from the date of matriculation through the date of final graduation.

BACHELOR OF SCIENCE IN BIOLOGY (59 CREDIT HOURS)

Learning Outcomes

1. Learn the fundamental concepts of the physical and life sciences. (Scientific Principles)
2. Demonstrate critical thinking skills in the areas of evaluation of experimental design and in the interpretation of experimental results. (Experimentation)
3. Demonstrate laboratory skills in the areas of experimental procedure and use of equipment. (Laboratory Skills)
4. Apply effective oral and written communication skills in communicating biological principles, scientific procedures, technical results, and overall conclusions of an experiment. (Communication)

Program coordinator: Dr. Jared Lee

Major Core

Complete all 12 courses (43 credits) listed below.

BIO 201 Molecules, Cells, & Inheritance
 BIO 202 Ecology, Evolution, & Organisms
 BIO 340 Genetics & Molecular Biology
 BIO 440 Evolution
 CHE 201 General Chemistry I
 CHE 202 General Chemistry II
 CHE 301 Organic Chemistry I
 CHE 302 Organic Chemistry II
 MAT 221 Statistics
 PHY 201 General Physics I
 PHY 202 General Physics II
 BIO/CHE 498 (see emphasis below)

Major Emphasis

Complete at least 16 credit hours from one of the following emphasis options below along with its corresponding Senior Capstone (16 credits).

ORGANISMAL BIOLOGY EMPHASIS

BIO 211 General Botany
 BIO 212 General Zoology
 BIO 331 Human Anatomy & Physiology I
 BIO 332 Human Anatomy & Physiology II
 BIO 355 Field Biology
 BIO 356 Marine Biology
 BIO 360 General Ecology
 BIO 375R Topics in Biology
 BIO 385R Directed Study
 BIO 498 Senior Capstone

MOLECULAR BIOLOGY EMPHASIS

BIO 312 Microbiology
 BIO 312L Microbiology Lab
 BIO 331 Human Anatomy & Physiology I
 BIO 332 Human Anatomy & Physiology II
 BIO 345 Cell Biology
 CHE 375R Topics in Biochemistry
 CHE 383 Biochemistry
 CHE 383L Biochemistry Lab
 CHE 385R Directed Study
 CHE 481 Bio-organic and Medicinal Chemistry
 CHE 483 Advanced Biochemistry
 CHE 498 Senior Capstone