

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Undergraduate Programs</b>		UUPC Approval <u>10-11-21</u> UFS Approval _____ Banner Posted _____ Catalog _____
	Department Biological Sciences College CESCOS		
<b>Program Name</b> Bachelor of Arts with Major in Biological Sciences	<input type="checkbox"/> New Program <input checked="" type="checkbox"/> Change Program	<b>Effective Date (TERM &amp; YEAR)</b> Spring 2022	
<b>Please explain the requested change(s) and offer rationale below or on an attachment</b>  Update Catalog for Biology electives  Add: BSC 4307 Climate Change Biology: Ecosystems to Human Health 3 credits.  Remove from Biology Electives-  Remove: ZOO 2303, 2303L Vertebrate Zoology and Lab			
<b>Faculty Contact/Email/Phone</b> William Brooks-561-297-388-wbrooks@fau.edu		<b>Consult and list departments that may be affected by the change(s) and attach documentation</b>	
<b>Approved by</b> Department Chair <u>Sarah L. Pittman</u> College Curriculum Chair <u>Kay Dyer</u> College Dean <u>[Signature]</u> UUPC Chair <u>Daniel Macroff</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____		<b>Date</b> <u>9-16-21</u> <u>9-27-21</u> <u>9-28-21</u> <u>10-11-21</u> <u>10-11-21</u> _____ _____	

Email this form and attachments to [mjenning@fau.edu](mailto:mjenning@fau.edu) one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

## Bachelor of Arts with Major in Biological Sciences

(Minimum of 120 credits required)

The Bachelor of Arts (B.A.) degree is intended to provide maximum flexibility for students pursuing study in interdisciplinary areas such as environmental science or secondary school teaching. In addition to the University and College degree requirements, students seeking a Bachelor of Arts degree in Biological Sciences must complete the following core requirements. All degree programs require a total of 120 credits, 45 of which must be upper-division credits.

### Prerequisite Coursework for Transfer Students

Students transferring to Florida Atlantic University must complete both lower-division requirements (including the requirements of the Intellectual Foundations Program) and requirements for the college and major. Lower-division requirements may be completed through the A.A. degree from any Florida public college, university or community college or through equivalent coursework at another regionally accredited institution. Before transferring and to ensure timely progress toward the baccalaureate degree, students must also complete the prerequisite courses for their major as outlined in the [Transition Guides](#).

All courses not approved by the Florida Statewide Course Numbering System that will be used to satisfy requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

<b>Core Requirements (40-41 credits)</b>		
Biological Principles and Lab	BSC 1010, 1010L	4
Biodiversity and Lab	BSC 1011, 1011L	4
General Chemistry 1	CHM 2045	3
General Chemistry 1 Lab	CHM 2045L	1
General Chemistry 2	CHM 2046	3
General Chemistry 2 Lab	CHM 2046L	1
Organic Chemistry 1	CHM 2210	3
Organic Chemistry 2	CHM 2211	3
Methods of Calculus	MAC 2233	3
Experimental Design and Statistical Inference	PSY 3234	3
Physical Science	PSC 2121	3
<b>Select four of the courses below (Additional courses selected from this category beyond the four courses may be applied toward the elective requirement.)</b>		
One course in Physiology***		4-5
Genetics	PCB 3063	4
Cell Biology	PCB 3023	3
Principles of Ecology	PCB 4043	3
Evolution	PCB 3674	3
<b>***Students who select the "One course in Physiology" option above may fulfill this option by choosing one of the below course/lab combinations</b>		
Principles of Plant Physiology and Lab	BOT 4503, 4503L	4
Comparative Animal Physiology and Lab	PCB 4723, 4723L	4

Vertebrate Structure Development and Evolution and Lab	ZOO 4690, 4690L	5
Human Morphology and Function 1 and Lab	PCB 3703, 3703L	4
Human Morphology and Function 2 and Lab	PCB 3704, 3704L	4

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<b>Biology Electives</b>		
<b>Select a minimum of 12 upper-division credits from the list below</b>		
Vascular Plant Anatomy and Lab	BOT 3223, 3223L	4
Marine Botany and Lab	BOT 4404, 4404L	4
Plant Cell Biology	BOT 4542	3
Plant Biotechnology	BOT 4734C	3
Life of a Biologist*	BSC 2844	1
Conservation Biology	BSC 3052	3
Introduction to Biological Research	BSC 3453	1
Biological Research Writing	BSC 3481	2
Molecular Genetics of Aging	BSC 4022	3
Climate Change Biology: Ecosystems to Human Health	BSC 4307	3
Laboratory Methods in Biotechnology	BSC 4403L	3
Concepts in Bioinformatics	BSC 4434C	3
Biology of Cancer	BSC 4806	3
Directed Independent Study**	BSC 4905	1-3
Directed Independent Research in Biological Sciences**	BSC 4910	0-3
Honors Research	BSC 4917	3
Honors Thesis	BSC 4918	3
Special Topics	BSC 4930	1-3
Comparative Animal Behavior	CBH 4024	3
Critical Thinking in Environmental Science	EVS 4021	3
General Microbiology and Lab	MCB 3020, 3020L	4
Medical Bacteriology	MCB 4203	3
Virology	MCB 4503	3
Microbial Ecology	MCB 4603	3
Marine Biodiversity and Lab	OCB 4032, 4032L	4
Marine Biology and Lab	OCB 4043, 4043L	4
Marine Microbiology and Molecular Biology and Lab	OCB 4525, 4525L	4
Marine Ecology and Lab	OCB 4633, 4633L	4
Marine Science	OCE 4006	3

Issues in Human Ecology	PCB 3352	3
Genetics Lab	PCB 4067L	3
Immunology	PCB 4233	3
Freshwater Ecology and Lab	PCB 4301, 4301L	4
Molecular Genetics	PCB 4522	3
Genes and Development	PCB 4594	3
Cellular Neuroscience and Disease	PCB 4842	3
Practical Cell Neuroscience	PCB 4843C	3
Vertebrate Zoology and Lab*	ZOO 2303, 2301L	4
Invertebrate Zoology and Lab*	ZOO 3205, 3205L	5
Introduction to Animal Locomotion	ZOO 4373	3
Functional Biology of Marine Animals and Lab	ZOO 4402, 4402L	4
Ornithology and Lab	ZOO 4472, 4472L	4
Principles of Human Neuroanatomy	ZOO 4742	3

**Note:** PHY 2053 may be substituted for PSC 2121.

\* Although they are biology electives, Life of a Biologist (BSC 2844) and Vertebrate Zoology (ZOO 2303, 2303L) are not upper-division courses and, as such, do not fulfill the minimum biology upper-division elective requirement of 12 credits.

\*\* Students may enroll in a maximum of 3 research credits within a single semester.

**Note:** No more than a total of 5 non-graded (S/U) credits may be used to fulfill biology degree program requirements. Approved non-graded biology electives include: