

Student Name:		Z Number:	
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## BS BIOLOGY - General Program Requirements and Electives for All Bio Majors

(This major consists of 72-74 credits total, 34-36 credits of Upper Division)

Course Title	Lect Grade	Lab Grade	FAU	Credits
<b>Required Courses (Biology Core) - 52-53 credits</b>				
Biological Principles & Lab			BSC 1010 & L	4
Biodiversity & Lab			BSC 1011 & L	4
*General Chemistry I & Lab			CHM 2045 & L	4
*General Chemistry II & Lab			CHM 2046 & L	4
*Organic Chemistry I			CHM 2210	3
*Organic Chemistry II			CHM 2211	3
College <b>or</b> General Physics I			PHY 2053 or 2048	4
General Physics I Lab			PHY 2048L	1
College <b>or</b> General Physics II			PHY 2054 or 2049	4
General Physics II Lab			PHY 2049L	1
Calculus			MAC 2233	3
Experimental Design and Statistical Inference <b>or</b> Biostatistics			PSY 3234 <b>or</b> STA 3173	3
<b>Choose 4 minimum from this area: (if a fifth is taken it will apply to elective area below)</b>				
Evolution			PCB 3674	3
Genetics			PCB 3063	4
Cell Biology			PCB 3023	3
Principles of Ecology			PCB 4043	3
<u>One Course in Physiology to be selected from:</u>				
Principles of Plant Physiology and Lab			BOT 4503, 4503L	4
Comparative Animal Physiology and Lab			PCB 4723, 4723L	4
Vert Struct Devel & Evolution and Lab			ZOO 4690, 4690L	5
Human Morphology & Function 1 and Lab			PCB 3703, 3703L	4
Human Morphology & Function 2 and Lab			PCB 3704, 3704L	4

## BIOLOGY ELECTIVES (SELECT 18 CREDITS)

Select a minimum of 18 UPPER DIVISION credits from the list below

Biochemistry 1			BCH 3033	3
Biochemistry 2 <b>OR</b> Biochemistry Lab			BCH 3034 <b>OR</b> BCH 3103L	3
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			BSC 3481	2
Molecular Genetics of Aging			BSC 4022	3
Biotechnology 1 Lab / 2 Lab			BSC 4403L, 4427L	2/ea
Concepts in Bioinformatics			BSC 4434C	3
Biology of Cancer			BSC 4806	3
**Directed Independent Study			BSC 4905	1-3
**Directed Independent Reserch			BSC 4916	0-3
Honors Research			BSC 4917	3
Honors Thesis			BSC 4918	3
Other: (e.g. Special Topics BSC 4930)			BSC 4930	1-3
Comparative Animal Behavior			CBH 4024	3
Organic Chemistry Lab			CHM 2211L	2

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 Microbio & Molecular Bio and Lab			OCB 4525, 4525L	4
Marine Ecology and Lab			OCB 4633, 4633L	4
Marine Science			OCE 4006	4
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	4
Genes and Development			PCB 4594	3
Reproductive Endocrinology			PCB 4803	3
Cellular Neuroscience and Disease			PCB 4842	3
Practical Cell Neuroscience			PCB 4843C	3
Biological Basis of Behavior			PSB 3002	3
Invertebrate Zoology and Lab			ZOO 2203, 2203L	5
Vertebrate Zoology and Lab			ZOO 2303, 2303L	4
Functional Bio of Marine Animals & Lab			ZOO 4402, 4402L	4
Ornithology and Lab			ZOO 4472, 4472L	4
Topics in Ornithology			ZOO 4479C	1-4
Principles of Human Neuroanatomy			ZOO 4742	3

<b>Important:</b>	<b>9-11 cr of Upper Division Gen Elective</b>
*Need a C- or better in All courses (*FAU Chemistry sequence requires a C or better to take the next course in the sequence)	
**Maximum of 5 credits in DIS; maximum of 3 credits DIS within a given semester	
<ul style="list-style-type: none"> <li>• Credits over 10 years old will not apply</li> <li>• 75% of Upper Division must come from major department @ FAU (26 cr. min UD Bio @FAU)</li> <li>• 45 credits of upper division coursework is required (min. 120 cr. total)</li> </ul>	

## Biology Honors Research Program

The Department of Biological Sciences offers an Honors Thesis Program that recognizes research accomplishments of talented undergraduates. Eligible students must have a minimum of 20 credits in biology and an overall GPA of 3.2. Students usually begin the program in their sophomore or junior year and conduct independent supervised research during their junior and senior years. A written paper and a seminar describing the results of their research are required in the senior year. Students who meet the eligibility criteria must apply and be accepted to the program in order to enroll in the below Honors Program courses which can be used as biology elective courses. Interested students should contact the faculty member whose research interests are closest to those the student wishes to pursue and see [biology.fau.edu/academics/undergraduate/research.php](http://biology.fau.edu/academics/undergraduate/research.php) for more information.

Course Title	Lect Grade	Lab Grade	FAU	Credits
Introduction to Biological Research			BSC 3453	1
Biological Research			BSC 3481	2
Honors Research			BSC 4917	3
Honors Thesis			BSC 4918	3

**Note:** This is not an Institutional Honors designation (e.g. Magna, Summa, cum Laude).