

**MONMOUTH UNIVERSITY CURRICULUM CHART**

Bachelor of Science in Biology	
MAJOR REQUIREMENTS/BIOLOGY: 45 Credits	Credits
<p>BY-109: Intro to Biodiversity &amp; Evolution 4.0</p> <p>BY-110: Intro to Cell &amp; Molecular Biology 4.0</p> <p>BY-205: Zoology 3.0</p> <p>BY-214: Botany 3.0</p> <p>BY-216: Introduction to Genetics 4.0</p> <p>BY-223: General Microbiology 4.0</p> <p>BY-310: Biochemistry and Laboratory 4.0</p> <p>BY-370: Cell Biology 3.0</p> <p>BY-375L: Lab Molecular &amp; Cell 3.0</p> <p>BY-425: Principles of Developmental Biology 4.0</p> <p><b>Take 8 Credits of Biology from the Following Courses:</b> 8.0</p> <p>BY-211: Physiology with Anatomy I</p> <p>BY-212: Physiology with Anatomy II</p> <p>BY-324: Applied Microbiology</p> <p>BY-440: Ecology</p> <p>BY-406: Introduction to Neurosciences</p> <p>BY-410: Molecular Biology</p> <p>BY-475: Endocrinology</p> <p>BY-499: Independent Study in Biology</p> <p>BY-495: Senior Seminar 1.0</p>	
INTERDISCIPLINARY REQUIREMENTS: 30 Credits	Credits
<p>MA-115: Pre-Calculus Modeling for the Biological Sciences 3.0</p> <p><b>or</b> MA-116: Calculus for the Biological Science</p> <p><b>or</b> MA-125: Calculus with Analytic Geometry I</p> <p>MA-151: Statistics with Applications 3.0</p> <p>CE-111: General Chemistry 3.0</p> <p>CE-111L: General Chemistry Lab 1.0</p> <p>CE-112: General Chemistry 3.0</p> <p>CE-112L: General Chemistry Lab 1.0</p> <p>CE-241: Organic Chemistry 3.0</p> <p>CE-241L: Organic Chemistry Lab 2.0</p> <p>CE-242: Organic Chemistry 3.0</p> <p>PH-105: Physics for the Life Sciences 3.0</p> <p>PH-105L: Physics for the Life Sciences Lab 1.0</p> <p>PH-106: Physics for the Life Sciences 3.0</p> <p>PH-106L: Physics for the Life Sciences Lab 1.0</p>	
FREE ELECTIVES: 17 Credits	Credits
<p>_____ 17.0</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p><i>(a) BY-102, BY-104, BY-105, and BY-106 are not available to BY majors.</i></p>	

Bachelor of Science in Biology		
GENERAL EDUCATION REQUIREMENTS: 36 Credits		Credits
First Year Seminar	FY-101: First Year Seminar *(Select Section "BY")	3.0
Reading and Writing	EN-101: College Composition I	3.0
	EN-102: College Composition II	3.0
Mathematics	Fulfilled in Interdisciplinary Requirements with required Math Course	0.0
Natural Sciences	Fulfilled in Major Requirements with required BY courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	IT-102: Information Technology for Scientists	3.0
Reasoned Oral Discourse	Fulfilled in Major Requirements with BY-375L and BY-495	0.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social Sciences	3 Credits from courses designated with Course*Type: HS.SV	3.0
	<b>or</b> 3 Credits from courses designated with Course*Type: SS.SV	
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity and Global Understanding or Foreign Language	3 Credits from courses designated with Course*Type: CD	6.0
	<b>and</b> 3 Credits from courses designated with Course*Type: GU	
	<b>or</b> 6 Credits from the SAME foreign language	
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	Two courses from Biology (BY) designated with Course*Type: WT	0.0
		0.0

**Minimum Credits for Bachelor of Science in Biology = 128.0**

**NOTES:**

\* 58 credits must be completed at the 200 level or higher.