

Bachelor of Science in Biology with a Concentration in Molecular Cell Physiology	
MAJOR REQUIREMENTS/BIOLOGY - MOLECULAR CELL PHYSIOLOGY: 48 Credits	Credits
BY-109: Intro to Biodiversity & Evolution BY-110: Intro to Cell & Molecular Biology BY-211: Physiology with Anatomy I BY-212: Physiology with Anatomy II BY-223: General Microbiology BY-310: Biochemistry and Laboratory BY-370: Cell Biology BY-375L: Lab Molecular & Cell BY-410: Molecular Biology BY-423: Genetics BY-425: Principles of Developmental Biology 6 Credits designated with Course*Type: "MC" BY-495: Senior Seminar	4.0 4.0 4.0 4.0 4.0 4.0 3.0 3.0 3.0 4.0 4.0 6.0 1.0
REQUIREMENTS OUTSIDE MAJOR: 30 Credits	Credits
MA-115: Intro to Mathematics Modeling in the Biological Sciences or MA-116: Calculus for the Biological Sciences or MA-125: Calculus with Analytic Geometry I MA-151: Statistics with Applications CE-111: General Chemistry CE-111L: General Chemistry Lab CE-112: General Chemistry CE-112L: General Chemistry Lab CE-241: Organic Chemistry CE-241L: Organic Chemistry Lab CE-242: Organic Chemistry PH-105: Physics for the Life Sciences PH-105L: Physics for the Life Sciences Lab PH-106: Physics for the Life Sciences PH-106L: Physics for the Life Sciences Lab	3.0 3.0 3.0 1.0 3.0 1.0 3.0 2.0 3.0 3.0 3.0 1.0 3.0 1.0
FREE ELECTIVES: 14 Credits	Credits
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(a) Courses BY101 through BY108 are not used to calculate major GPA. (b) BY102, BY104, BY105, and BY106 are not available to BY majors.	

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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 Outside Major Requirements with MA-115, MA-116, MA-125, or MA-151	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 or 3 Credits from courses designated with Course*Type: SS.SV	3.0
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 and 3 Credits from courses designated with Course*Type: GU or 6 Credits from the SAME foreign language	6.0
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 with a Concentration in Molecular Cell Physiology = 128.0

NOTES:

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