

Bachelor of Science in Biology with a Concentration in Molecular Cell Physiology	
MAJOR REQUIREMENTS/BIOLOGY - MOLECULAR CELL PHYSIOLOGY: 48 Credits	Credits
BY109: Intro to Biodiversity & Evolution	4.0
BY110: Intro to Cell & Molecular Biology	4.0
BY211: Physiology with Anatomy I	4.0
BY212: Physiology with Anatomy II	4.0
BY223: General Microbiology	4.0
BY310: Biochemistry and Laboratory	4.0
BY370: Cell Biology	3.0
BY375L: Lab Molecular & Cell	3.0
BY410: Molecular Biology	3.0
BY423: Genetics	4.0
BY425: Principles of Developmental Biology	4.0
 6 Credits designated with Course*Type: "MC"	6.0
BY495: Senior Seminar	1.0
REQUIREMENTS OUTSIDE MAJOR: 30 Credits	Credits
MA115: Intro to Mathematics Modeling in the Biological Sciences	3.0
or MA116: Calculus for the Biological Sciences	
or MA125: Calculus with Analytic Geometry I	
 MA151: Statistics with Applications	3.0
CE111: General Chemistry	3.0
CE111L: General Chemistry Lab	1.0
CE112: General Chemistry	3.0
CE112L: General Chemistry Lab	1.0
CE241: Organic Chemistry	3.0
CE241L: Organic Chemistry Lab	2.0
CE242: Organic Chemistry	3.0
PH105: Physics for the Life Sciences	3.0
PH105L: Physics for the Life Sciences Lab	1.0
PH106: Physics for the Life Sciences	3.0
PH106L: Physics for the Life Sciences Lab	1.0
FREE ELECTIVES: 14 Credits	Credits
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<p>(a) Courses BY101 through BY108 are not used to calculate major GPA.</p> <p>(b) BY102, BY104, BY105, and BY106 are not available to BY majors.</p>	

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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	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Outside Major Requirements with MA115, MA116, MA125, or MA151	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	IT102: Information Technology for Scientists	3.0
Reasoned Oral Discourse	Fulfilled in Major Requirements with BY375L and BY495	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.