

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	4.0
BY-110: Intro to Cell & Molecular Biology	4.0
BY-211: Physiology with Anatomy I	4.0
BY-212: Physiology with Anatomy II	4.0
BY-216: Introduction to Genetics	4.0
BY-223: General Microbiology	4.0
BY-310: Biochemistry and Laboratory	4.0
BY-370: Cell Biology	3.0
BY-375L: Lab Molecular & Cell	3.0
BY-410: Molecular Biology	3.0
BY-425: Principles of Developmental Biology	4.0
<b>Take 6 Credits from Courses Designated with Course*Type = MC</b>	6.0
BY-495: Senior Seminar	1.0
INTERDISCIPLINARY REQUIREMENTS: 30 Credits	Credits
MA-115: Pre-Calculus Modeling for the Biological Sciences or MA-116: Calculus for the Biological Sciences or MA-125: Calculus with Analytic Geometry I	3.0
MA-151: Statistics with Applications	3.0
CE-111: General Chemistry	3.0
CE-111L: General Chemistry Lab	1.0
CE-112: General Chemistry	3.0
CE-112L: General Chemistry Lab	1.0
CE-241: Organic Chemistry	3.0
CE-241L: Organic Chemistry Lab	2.0
CE-242: Organic Chemistry	3.0
PH-105: Physics for the Life Sciences	3.0
PH-105L: Physics for the Life Sciences Lab	1.0
PH-106: Physics for the Life Sciences	3.0
PH-106L: Physics for the Life Sciences Lab	1.0
FREE ELECTIVES: 14 Credits	Credits
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(a) BY-102, BY-104, BY-105, and BY-106 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 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 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	6.0
	and 3 Credits from courses designated with Course*Type: GU or 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 with a Concentration in Molecular Cell Physiology = 128.0

**NOTES:**

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