

B.S. in Biology with a Concentration in Molecular Cell Physiology		
MAJOR REQUIREMENTS/BIOLOGY: 46 Credits		Credits
6 credits:	BY110: Principles of Biology	4.0
	BY111: Anatomy and Physiology	4.0
	BY112: Anatomy and Physiology	4.0
	BY213: Biology of Vascular Plants	3.0
	BY310: Biochemistry and Laboratory	4.0
	BY323: General Microbiology	4.0
	BY370: Cell Biology	3.0
	BY375L: Lab Molecular & Cell	2.0
	BY410: Molecular Biology	3.0
	BY423: Genetics	4.0
	BY425: Principles of Developmental Biology	4.0
	<p><b>From courses designated course type "MC"</b></p> <p>_____ : MCP Research/Internship/Co-op/Practicum (2-3 Credits)      6.0</p> <p>_____ : MCP Electives from among: (3-4 Credits)</p> <p style="padding-left: 20px;">BY201, BY250, BY450, BY301, BY324, BY406</p> <p style="padding-left: 20px;">BY406L, BY412, BY475, BY499/MCP</p> <p>BY495: Senior Seminar &amp; Portfolio</p>	1.0
REQUIREMENTS OUTSIDE OF MAJOR: 30 Credits		Credits
	MA115: Math Models in Biology (a)	3.0
	or MA116: Calculus for Biology	
	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: 10 Credits		Credits
	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
(a) May substitute MA116 or MA125, depending upon placement.		

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GENERAL EDUCATION REQUIREMENTS: 42 Credits		Credits
English	EN101: College English I	3.0
	EN102: College English II	3.0
Literature	EN201: Literature I	3.0
	EN202: Literature II	3.0
History	HS101: Western Civilization In World Perspective I	3.0
	HS102: Western Civilization In World Perspective II	3.0
Information Technology	IT102: Information Technology for Scientists	3.0
Critical Discourse	HU201: Critical Discourse	3.0
Science	Fulfilled in Major Requirements	0.0
Mathematics	Fulfilled in Requirements Outside Major	0.0
Social Science	Choose two courses from 2 different disciplines from among the following: any 100-level courses in AN, GO, PS, PY, SO; BE201, BE202, GS225.	3.0
		3.0
Aesthetics	AR101: Art Appreciation	3.0
	or MU101: Music Appreciation	
	or TH101: Theater Appreciation	
	or DA101: Dance Appreciation	
Cross Cultural	Two courses chosen from the set of approved courses	3.0
	or 6 credits in the same foreign language	3.0
Perspectives	PRxxx	3.0
Experiential Education	EX001	0.0
Demonstration of Writing Proficiency	WP001	0.0
Writing Intensive Requirement	Two courses as specified by the department in which the major is housed.	0.0
		0.0

**TOTAL CREDITS FOR B.S. IN BIOLOGY WITH A CONCENTRATION IN MOLECULAR CELL PHYSIOLOGY = 128.0**

**NOTES:**

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