MONMOUTH UNIVERSITY CURRICULUM CHART

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
BY111: Anatomy and Physiology	4.0
BY112: Anatomy and Physiology	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
BY499: Research	3.0
3 Credits designated with Course*Type: "MC"	3.0
BY495: Senior Seminar	1.0

REQUIREMENTS OUTSIDE MAJOR: 30 Credits	Credits
MA115: Math Models in Biology	3.0
or MA116: Calculus for Biology	
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
_____	14.0
_____	
_____	
_____	
_____	

(a) BY102 and BY104 are not available to BY majors, nor used to calculate major GPA.

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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/Global Understanding		3 Credits from courses designated with Course*Type: CD	
		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

Total Credits for Bachelor of Science in Biology with a Concentration in Molecular Cell Physiology = 128

NOTES:

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