

| Bachelor of Science in Biology with a Concentration in Molecular Cell Physiology | | |
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| MAJOR REQUIREMENTS/BIOLOGY - MOLECULAR CELL PHYSIOLOGY: 48 Credits | | Credits |
| <p>3 Crs with Course*Type Designation: MC from among:</p> | 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 |
| BY201, BY, 213, BY250, BY301, BY324, BY406 BY406L, BY412, BY450, BY475, BY499/MCP | 3.0 | |
| BY495: Senior Seminar & Portfolio | 1.0 | |
| REQUIREMENTS OUTSIDE MAJOR: 30 Credits | | Credits |
| | MA115: Math Models in Biology or MA116: Calculus for Biology or MA125: Calculus with Analytic Geometry I | 3.0 |
| | 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 |

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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 or 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 | 3.0 |
| | or 3 Credits from courses designated with Course*Type: SS.SV | |
| 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 | 6.0 |
| | 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 |

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.