



CURRICULUM GUIDE WORKSHEET

Biology BS in Cell and Molecular Biology-PREMED

Name: _____

Catalogue Year: _____

Minor: _____

Freshman (Fall)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|---------------|---|-----------|---------------------------------|
| <input type="checkbox"/> | BIO 112 | Principles of Biology | 4 | _____ |
| <input type="checkbox"/> | MAT 116/211 | Precalculus/Calculus and Analytic Geometry I ³ | 4 | <u>Take 116P placement exam</u> |
| <input type="checkbox"/> | ENG 111 | Written Composition I | 3 | _____ |
| <input type="checkbox"/> | CHE 111 | General Chemistry | 4 | _____ |
| | | | 15 | |

☐ Review Registration on Ellucian/Self-Service

Freshman (Spring)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|---------------|------------------------|-----------|-------|
| <input type="checkbox"/> | BIO 210 | Zoology | 4 | _____ |
| <input type="checkbox"/> | BIO 211 | Microbiology | 4 | _____ |
| <input type="checkbox"/> | ENG 112 | Written Composition II | 3 | _____ |
| <input type="checkbox"/> | CHE 112 | Chemical Equilibrium | 4 | _____ |
| | | | 15 | |

Sophomore (Fall)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|--------------------------|---|-----------|-------|
| <input type="checkbox"/> | BIO 307/317 [#] | Advanced Human A&P II/Developmental Biology | 4 | _____ |
| <input type="checkbox"/> | CHE 314 | Organic Chemistry I | 3 | _____ |
| <input type="checkbox"/> | CHE 324 | Organic Chemistry Laboratory | 2 | _____ |
| <input type="checkbox"/> | MAT 211 | Calculus and Analytic Geometry I | 4 | _____ |
| <input type="checkbox"/> | COM 112/235 | Public/Interpersonal Communication | 3 | _____ |
| | | | 16 | |

☐ Discuss minor options

Sophomore (Spring)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|--------------------------|--|-----------|-------|
| <input type="checkbox"/> | BIO 309/316 [#] | Advanced Human A&P II/ Physiology | 4 | _____ |
| <input type="checkbox"/> | CHE 315 | Organic Chemistry II | 3 | _____ |
| <input type="checkbox"/> | CHE 326 | Organic/Inorganic Synthesis Laboratory | 2 | _____ |
| <input type="checkbox"/> | ENG 201/202 | World Literature I/II ² | 3 | _____ |
| <input type="checkbox"/> | SOC SCI ELEC | Social Science Elective ⁴ | 3 | _____ |
| | | | 15 | |

☐ Declare minor with Dean, Arts & Sciences

1. Students must take HIS 101 before or with ART 210.

2. This course can be taken in Summer to lighten Fall/Spring loads.

Calculus is not required for C&M majors but is recommended. If omitted, add electives for 120 total hours.

*A minimum of 36 upper-level (300 and 400 level) hours is required. At least 15 upper level in major. The degree must meet a minimum of 120 hours. Selection of core options may alter total numbers indicated.

Junior (Fall)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|--------------------------|--|----------------|--------------|
| <input type="checkbox"/> | BIO 317/320 [#] | Developmental Biology/Immunology | 4 | _____ |
| <input type="checkbox"/> | CHE 319 | Biochemistry | 4 | _____ |
| <input type="checkbox"/> | PHY 213/231 | Intro to Physics ² / University Physics I with Calc | 4 | _____ |
| <input type="checkbox"/> | MAT 114/208 | Introduction to Statistics/Statistics ³ | 3 | _____ |
| | | | 16 | |

☐ Apply for Junior Audit after completing 72 credit hours

Junior (Spring)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|----------------------|--|-----------------|--------------|
| <input type="checkbox"/> | BIO 315 [#] | Genetics | 4 | _____ |
| <input type="checkbox"/> | BIO 425 | Introduction to Research | 1 | _____ |
| <input type="checkbox"/> | PHY 214/232 | Intro to Physics ² /University Physics II with Calc | 4 or 5 | _____ |
| <input type="checkbox"/> | CHE 329 | Biochemistry II | 4 | _____ |
| <input type="checkbox"/> | PEWS 100 | Fitness for Health ² | 1 | _____ |
| | | | 14 or 15 | |

Senior (Fall)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|----------------------|---|----------------|--------------|
| <input type="checkbox"/> | BIO 426 | Research Experience I | 1 | _____ |
| <input type="checkbox"/> | BIO 498 | Biology Seminar | 1 | _____ |
| <input type="checkbox"/> | BIO 325 [#] | Molecular Biology | 4 | _____ |
| <input type="checkbox"/> | ART 210 | The Arts in Western Civilization ¹ | 3 | _____ |
| <input type="checkbox"/> | HIS 101 | World Civilization to the 18 th Century ^{1,2} | 3 | _____ |
| <input type="checkbox"/> | CHR 112 | New Testament Survey ² | 3 | _____ |
| | | | 16 | |

☐ Apply for Graduation

Senior (Spring)

| X | Course Prefix | Course Name | Credits | Notes |
|--------------------------|----------------------|--|----------------|--------------|
| <input type="checkbox"/> | BIO 427 | Research Presentation | 1 | _____ |
| <input type="checkbox"/> | BIO 397 | Special Studies | 1 | _____ |
| <input type="checkbox"/> | BIO 3XX [#] | Upper Level Biology Elective [#] | 4 | _____ |
| <input type="checkbox"/> | BIO 323 | Cell Biology | 4 | _____ |
| <input type="checkbox"/> | CHR 111 | Old Testament Survey ² | 3 | _____ |
| <input type="checkbox"/> | HIS 102 | World Civilization from the 18 th Century | 3 | _____ |
| | | | 16 | |

1. Students must take HIS 101 before or with ART 210. 2. This course can be taken in Summer to lighten Fall/Spring loads.

3. Statistics required for all Biology majors. Options include:

MAT 114 (Introduction to Statistics), MAT 208 (Statistics), and BIO 304 (Experimental Design and Biostatistics).

4. Choose one of the following: ECO 211, 212, HON 225, PHL 240, PSC 211, PSY 213, or SOC 211

[#] Students are required to take BIO 315, 323, 325 and 397 and any 3 of BIO 307, 309, 310, 316, 317, or 320, plus 3-4 hours of a 300 level BIO elective. Students may opt to take certain courses during Summer term.

Created 04/05/21 | Updated 03/21/24

Student Organizations:

Extracurricular Opportunities:

Travel & Study Abroad:
