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| Name: Click or tap here to enter text. | UWM ID: Click or tap here to enter text. |

BioSci Faculty Advisor: Dr.

University of Wisconsin Milwaukee

Major in Biological Science  
General Bio Option

**FIRST YEAR**

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| **FALL**   1. *Example: BioSci150 - 4 cr* 2. Click or tap here to enter text. 3. Click or tap here to enter text. 4. Click or tap here to enter text. 5. Click or tap here to enter text.   BioSci Total Credit  BioSci >300 level | **SPRING**  1 Click or tap here to enter text.   1. Click or tap here to enter text. 2. Click or tap here to enter text. 3. Click or tap here to enter text. 4. Click or tap here to enter text.   BioSci Total Credit  BioSci >300 level |

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| **Requirements** |
| * 34 BioSci credits (150, 152 are the only 100-level course that count toward the major) |
| * 4 lab courses total (including 150, 152, plus gateway and elective courses with laboratory components) * Approved capstone course |
| * At least 26 credits in BioSci courses number 300 or greater |
| * At least 2.0 GPA in BioSci courses for major |
| * At least 3.75 GPA in BioSci courses for honors in the major |

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| **FOUNDATIONS:** Required for all majors. Take sequentially. | | |
| BioSci 150 | BioSci 152 | BioSci 325 |

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| **GATEWAY COURSES:** Choose at least one gateway option. Additional choices will count toward upper-level elective credits. | |
| **1. Cell & Molecular Biology (CMB)** | |
| BioSci 315 | BioSci 316 |
| **2. Ecology, Evolution & Biology (EEB)**  BioSci 310  **3. Microbiology:**  BioSci 383 | |

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| **LAB COURSES:** BioSci 150, 152, 310, 316, and 383 also count as lab courses. See additional lab options on Page II. | |
| BioSci | BioSci |
| BioSci | BioSci |

**JUNIOR YEAR**

**CAPSTONE REQUIREMENT:** See courses that count toward capstone requirement on Page II.

BioSci

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| **CHEMISTRY COURSES:** Take both Gen Chem courses chose Sequence I or II of Organic Chem | | |
| **Gen Chem:** | **Organic Chem:** | |
| Chem 102 | **Sequence I or Sequence II** | |
| Chem 104 | Chem 341 | Chem 343 |
|  | Chem 342 | Chem 344 |
|  |  | Chem 345 |

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| **MATH REQUIREMENTS:** Take at least one semester of Calculus (Math 211, 213, 221, or 231). The 2nd semester of math may be fulfilled by BioSci 465, which also counts toward upper-level credits in the major (or MthStat 215, or Math 232) | |
| Math | BioSci 465 or \_\_\_\_\_\_\_\_\_ |

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| **PHYSICS:** Choose one sequence | | | | |
| **Sequence I: or Sequence II: or Sequence III:** | | | | |
| Lecture | Lab (at least one) | Lecture | Lab (at least one) | Combined |
| Phys 120 | Phys 121 | Phys 209 | Phys 214 | Phys 219 |
| Phys 122 | Phys 123 | Phys 210 | Phys 215 | Phys 220 |

**GENERAL EDUCATION REQUIREMENTS**

See L&S advisor for additional L&S/University requirements for   
the degree pathway.

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| **FALL**   1. Click or tap here to enter text.   **SOPHMORE YEAR**  3 Click or tap here to enter text.  4 Click or tap here to enter text.  5 Click or tap here to enter text.  BioSci Total Credit  BioSci >300 level | **SPRING**   1. Click or tap here to enter text.   2 Click or tap here to enter text.  3 Click or tap here to enter text.  4 Click or tap here to enter text.  5 Click or tap here to enter text.  BioSci Total Credit  BioSci >300 level |

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| **FALL**   1. Click or tap here to enter text. 2. Click or tap here to enter text. 3. Click or tap here to enter text. 4. Click or tap here to enter text. 5. Click or tap here to enter text.   BioSci Total Credit  BioSci >300 level | **SPRING**   1. Click or tap here to enter text. 2. Click or tap here to enter text. 3. Click or tap here to enter text. 4. Click or tap here to enter text. 5. Click or tap here to enter text.   BioSci Total Credit  BioSci >300 level |

**SENIOR YEAR**

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| **FALL**   1. Click or tap here to enter text. 2. Click or tap here to enter text. 3. Click or tap here to enter text. 4. Click or tap here to enter text. 5. Click or tap here to enter text.   BioSci Total Credit  BioSci >300 level | **SPRING**   1. Click or tap here to enter text. 2. Click or tap here to enter text. 3. Click or tap here to enter text. 4. Click or tap here to enter text. 5. Click or tap here to enter text.   BioSci Total Credit  BioSci >300 level |

**TOTALS:**

BioSci Total Credit BioSci >300 level

***Revised: 6/2/23***

**MAJOR IN BIOLOGICAL SCIENCES - COURSES BY SEMESTER**

**Fall Semester Courses**

**Course (cr) Course Name**

BioSci 150 (4) Found. of Biological Sci I (**C,E,L,M,Su**)

BioSci 152 (4) Found. of Biological Sci II (**C,E,L,M,Su**)

BioSci 202 (4) Anatomy & Physiology I (**L,Su**)

BioSci 203 (4) Anatomy & Physiology II (**C,L,Su**)

BioSci 310 (4) Ecology (**E,L**)

BioSci 315 (3) Cell Biology (**C,E,M**)

BioSci 316 (2) Lab in Genetics & Cell Bio (**C,L,M**)

BioSci 325 (4) Genetics (**C,E,M,Su**)

BioSci 356 (3) Devl Bio (**C**)

BioSci 370 (3) Mammalian Physiology (**C**)

BioSci 383 (4) General Microbiology (**C,E,L,M**)

BioSci 405 (3) General Virology (**C,M**)

BioSci 451 (3) Field Methods in Conservation (**E**)

BioSci 458 (3) Community Ecology (**E**)

BioSci 465 (3) Biostatistics (**E**)

BioSci 480 (3) Ecological Genetics(**E**)

BioSci 490 (3) Molecular Genetics (**C,M,1**)

BioSci 498 (3) Genetics of Development & Cancer (**C**)

BioSci 501 (3) Aquatic & Plant Ecophysiology Lab (**L,3**)

BioSci 502 (3) Intro Programing/Modeling In EEB (**E**)

BioSci 505 (3) Conservation Biology(**E**)

BioSci 512 (3) Limnology(**E**)

BioSci 535 (3) Bacterial Pathogenesis (**F,M**)

BioSci 539 (4) Lab Techniques Mol Bio (**C,E,L,M,Su**)

BioSci 540 (3) Microbial Diversity (**M**)

BioSci 542 (3) Biological Electron Microscopy (**C,M**)

BioSci 543 (2) Scan Electron Microscopy Lab (**C**,**E,L**)

BioSci 564 (3) Endocrinology (**C**)

BioSci 565 (3) Gene Reg StemCells/Regeneration (**C,2)**

BioSci 566 (3) Cell Bio of Human Disease(**C**)

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| **Abbreviations**  **(C)** Course will also count for CMB Option  **(E)** Course will also count for EEB Option  **(M)** Course will also count for Micro Major  **(L)** Course will count toward the four-lab requirement  **(Su)** Courses that are also offered in the summer  **(1)** Course typically offered odd years  **(2)** Course typically offered even years  **(3)** Course offered irregularly  **\*** Only count for Capstone if CES Dbl Major  **\*\***BioSci departmental approval required for capstone credit |

**Spring Semester Courses**

**CAPSTONE & CROSS LISTED COURSES**

**Capstone Courses**

BioSci 611 (2) Seminar Limnology & Oceanograph (**E**)

BioSci 670 (1) Senior Seminar in Biological Sciences

BioSci 671 (1) Undergrad Seminar in Microbiology (**M)**

BioSci 672 (1) Undergrad Seminar in Cell Mol Bion (**C**)

CES 471**\*** (4)Pract. In Nat. Resource Man

**Independent Study**

***Up to six credits can count towards the major***

BioSci 695 Ind Study Freshwater Science (**E**)

BioSci 697 Ind Study in Cell & Molecular Biology (**C**)

BioSci 698 Ind Study in Microbiology (**M**)

BioSci 699 Ind Study

Honors 687\*\* Senior Honors Project

Honors 689\*\* Senior Honors Thesis

Honors 686\*\* Research in Honors

**Cross Listed Courses**

***Up to six credits can count towards the major***

Anthro 301 (3) Human Evolution & Variation

BMS 534 (3) Medical Micro

BMS 535 (2) Med Micro Lab

CES 471**\*** (4) Pract. In Nat. Resource Man.

Chem 501 (3) Biochem

Psych 254 (3) Phys. Psych

Psych 654 (4) Adv. Phys. Psych

**Course (cr) Course Name**

BioSci 150 (4) Found. of Biological Sci I (**C,E,L,M,Su)**

BioSci 152 (4) Found. of Biological Sci II (**C,E,L,M,Su)**

BioSci 202 (4) Anatomy & Physiology I (**L,Su)**

BioSci 203 (4) Anatomy & Physiology II (**C,L,Su)**

BioSci 310 (4) Ecology (**E,L)**

BioSci 315 (3) Cell Biology (**C,E,M**)

BioSci 316 (2) Lab in Genetics & Cell Bio (**C,L,M**)

BioSci 325 (4) Genetics (**C,E,M,Su**)

BioSci 335 (3) Mammalian Reproductive Biology (**C**)

BioSci 358 (2) Birds of Wisconsin (**E,L**)

BioSci 383 (4) General Microbiology (**C,E,L,M**)

BioSci 401 (3) Immunology (**C,M**)

BioSci 406 (3) Marine Biology (**E**)

BioSci 440 (3) Ecol/Evolution of Amphib & Reptiles(**E**)

BioSci 455 (3) Cell/Molecular/Dev Neurobiology (**C**)

BioSci 465 (3) Biostatistics (**E**)

BioSci 469 (2) Genomic Data Analysis (**C**)

BioSci 475 (3) Tropical Ecology (**E,3**)

BioSci 500 (3) Plant Physiology (**C,E**)

BioSci 523 (3) Ecology & Evolution of Birds (**E**)

BioSci 529 (3) Molecular Bio of Microorganisms (**M**)

BioSci 532 (3) Behavioral Ecology (**E**)

BioSci 544 (3) Trans Electron Microscopy Lab (**C,M, L**)

BioSci 562 (1-2) Topics in Field Biology **(E,Su)**

BioSci 575 (3) Evolutionary Biology (**E**)

BioSci 580 (4) Experimental Microbiology (**C,L,M)**

**Faculty Advisor’s Notes/Comments:** Click or tap here to enter text.