Biology: Pre-Podiatry Concentration

| Bisi | Bismarck State College (AS) and University of Mary | | | | | | | |
|------|----------------------------------------------------|------|--|--|--|--|--|--|
| | | | | | | | | |
| | Fall | | | | | | | |
| | | 0.14 | | | | | | |

| Freshman: | Fall | | UMary |
|--------------------|------------------------------------------------|---------|-------------------------|
| BIOL 150/150L | | 2/1 | Equivalent BIO 103/L |
| | General Biology 1 and Lab (Math/Sci/Tech) | 3/1 | CHE 111/L |
| CHEM 121/121L | General Chemistry I/Lab (Math/Sci/Tech) | 4/1 | |
| POLS 115 | American Government (Soc Sci) | 3 | POL 101 |
| ENGL 110 | College Comp I (Comm) | 3 | ENG 111 |
| BSC | Enrichment Elective | 2 | Elective |
| | Fall Credits | 17 | |
| ENOL 100 | Spring | | FNO 101 |
| ENGL 120 | College Comp II (Comm) | 3 | ENG 121 |
| SOC 110 | Introduction to Sociology (Soc Sci; Diversity) | 3 | SOC 107 |
| COMM 110 | Fundamentals of Public Speaking (Comm) | 3 | COM 110 |
| BIOL 151/151L | General Biology II/Lab (Math/Sci/Tech) | 3/1 | BIO 106/L |
| CHEM 122/122L | General Chemistry II/Lab (Math/Sci/Tech) | 4/1 | CHE 112/L |
| | Spring Credits | 18 | |
| | Total Freshman Credits | 35 | |
| Sophomore: | Fall | | |
| PHIL 210 | Ethics (Arts & Humanities) | 3 | PHI 208 |
| BIO 220/220L | Anatomy and Physiology I/Lab (Math/Sci/Tech) | 3/1 | BIO 207/L |
| CHEM 241/241L | Organic Chemistry I/Lab | 4/1 | CHE 217/L |
| Elective | Elective Course | 3 | Elective |
| | Fall Credits | 15 | |
| | Spring | | |
| Elective | Elective Course | 3 | Elective |
| BIO 221/221L | Anatomy and Physiology II/Lab | 3/1 | BIO 208/L |
| RELS | RELS course (Arts & Humanities) | 3 | THE 120 |
| MAT 165 | Calculus 1 (Math/Sci/Tech) | 3 | MAT 209 |
| | Spring Credits | 13 | |
| | Total Sophomore Credits | 28 | |
| | Total BSC Credits | 63 | (62→UMary) |
| Junior: | Fall | | - |
| HUM 322 | Transfer Seminar | 1 | |
| BIO 311 | Genetics | 4 | |
| PHY 203 | Physics | 4 | |
| BIO 309 or 314 | Microbiology or Histology | | |
| PSY 201 | General Psychology | 3 | |
| P31 201 | Fall Credits | ა 16 | |
| | Spring | 10 | |
| DLIV 204 | | 1 | |
| PHY 304 CHE 318 | Intermediate Physics Organic Chemistry II | 4 | |
| | | | |
| BIO 421 or BIO 318 | Advanced Physiology or Immunology | 4 | |
| MAT Elective | MAT 204, 206, or 210 | 4 | |
| | Spring Credits | 16 | |
| | Total Junior Credits | 32 | |
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| Senior: | Fall | | |
|--------------------|--------------------------------------------|-----|---|
| BIO 309 or 314 | Microbiology or Histology | 4 | |
| BIO 4XX | BIO Elective Environmental area | 4 | |
| Elective | 300/400 Level Elective | 3 | |
| Elective | Elective | 3 | |
| Elective | Elective | 3 | |
| | Fall Credits | 17 | |
| | Spring | | |
| BIO 450 | Evolution and the Integration of Knowledge | 3 | |
| CHE 310 | Biochemistry | 4 | |
| BIO 421 or BIO 318 | Advanced Physiology or Immunology | 4 | |
| BIO 354 | Botany | 4 | |
| HUM 499 | Senior Competences Assessment | 0 | |
| | Spring Credits | 15 | |
| | Total Senior Credits | 32 | _ |
| | Total UMary Credits | 64 | |
| | Total Bachelor's Degree Credits | 125 | |

Specific admission requirements vary by medical school. For this reason, it is essential that students contact the schools they are interested in attending early in their academic programs, and periodically thereafter, to be sure they include all required courses in their programs of study.

Note: Because some biology courses (e.g. Microbiology) are offered every other year, it is important for students to consider the rotation of courses in planning their programs of study to ensure they take these courses in the appropriate year.

Biology Electives: Students must take five biology electives selected from three major areas of study. Of the five, at least one course must be taken from each of the three areas. These electives are in addition to the required biology courses.

Organismal & Systematics Area

| Organismai & Systematics Area | | |
|-------------------------------|---------------------------------|----------------|
| BIO 207 | Human Anatomy and Physiology I | (Bio 207 & 208 |
| BIO 208 | Human Anatomy and Physiology II | together count |
| BIO 312 | Parasitology | as 1 elective) |
| BIO 330 | Zoology | |
| BIO 421 | Advanced Physiology | |
| BIO 339 | Mammalogy | |
| BIO 333 | Ornithology | |
| Cell and Molecular Area | | |
| BIO 309 | Microbiology | |
| BIO 310 | Cell and Molecular Biology | |
| BIO 314 | Histology | |
| BIO 318 | Immunology and Serology | |
| BIO 319 and 320 | Hematology and Hematology Lab | |
| BIO 417 | Developmental Biology | |
| Environmental Area | | |
| BIO 326 | Environmental Biology | |
| BIO 415 | Conservation Biology | |
| BIO 422 | Principles of Ecology | |
| BIO 423 | Animal Behavior | |
| BIO 433 | Range Management | |
| BIO 432 | Wildlife Management | |
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