

BIOLOGY DEPARTMENT

COURSE RECOMMENDATIONS

2012-2013 Catalogue



EDGEWOOD COLLEGE

Ecology/Conservation Biology

Students interested in ecology and/or conservation biology should consider taking the following courses as part of their program of study:

Biology courses (as part of the biology coursework requirement):

- BIO 206 EV Natural Communities of Wisconsin
- BIO 250 EV Environmental Biology
- BIO 333 E Ecological History of Civilization
- BIO 450 E Ecology
- BIO 292 Biology Excursions
- BIO 402 Cell and Molecular Biology
- BIO 430 Animal Behavior

Courses outside of biology:

- GEOS 206 EV Environmental Geology
- PS 352 EJ Environmental Politics
- GEOG 265 E Environmental Conservation

Medical Science and Biomedical Graduate Programs

Students interested in medical or health-related fields should consider the following courses as part of their program of study:

Biology courses (as part of the Biology coursework requirement):

- BIO 210 Anatomy and Physiology I
- BIO 211 Anatomy and Physiology II
- BIO 312 S Microbiology
- BIO 402 Cell and Molecular Biology
- BIO 406 Medical Microbiology
- BIO 408 Immunology
- BIO 410 Pathology
- BIO 425 Comparative Animal Physiology
- BIO 469 Endocrinology

Chemistry courses (as part of the Biology coursework requirement):

- CHEM 120 S General Chemistry I
- CHEM 121 S General Chemistry II

Additional chemistry and physics courses that students interested in medical science or biomedical graduate programs should consider taking:

- CHEM 321 Organic Chemistry I
- CHEM 323 Organic Chemistry II
- CHEM 340 Biochemistry
- PHYS 130 & 131 S General Physics I & General Physics II
OR
- PHYS 201 & 202 S College Physics I & College Physics II

Sports Science

Students interested in physical therapy, exercise physiology, or other sports science fields should also consider the following science courses as a part of their program of study:

Biology courses (as part of the Biology coursework requirement):

- BIO 210 Anatomy and Physiology I
- BIO 211 Anatomy and Physiology II
- BIO 220 V Introduction to Biomechanics
- BIO 312 S Microbiology
- BIO 402 Cell and Molecular Biology
- BIO 410 Pathology
- BIO 415 Exercise Physiology
- BIO 425 Comparative Animal Physiology

Chemistry courses (as part of the Biology coursework requirement):

- CHEM 120 S General Chemistry I
- CHEM 121 S General Chemistry II

Additional chemistry and physics courses that students interested in sports medicine should consider taking:

- CHEM 321 Organic Chemistry I
- CHEM 323 Organic Chemistry II
- PHYS 130 & 131 S General Physics I & General Physics II
OR
- PHYS 201 & 202 S College Physics I & College Physics II

Graduate School

Students interested in pursuing graduate work in biology leading to a Master's degree or Doctorate should contact their advisor to determine which Biology elective courses will best prepare them for a particular graduate program. The following list of chemistry, physics, and math courses are commonly expected for graduate admissions:

Chemistry courses (as part of the biology coursework requirement):

- CHEM 120 S General Chemistry I
- CHEM 121 S General Chemistry II

Additional chemistry and physics courses:

- CHEM 321 Organic Chemistry I
- CHEM 323 Organic Chemistry II
- CHEM 340 Biochemistry
- PHYS 130 & 131 S General Physics I & General Physics II
OR
- PHYS 201 & 202 S College Physics I & College Physics II

Mathematics courses:

- MATH 121 M Statistics
- MATH 231 M Calculus I
- MATH 232 M Calculus II