

Courses & Timeline

381: EVOLUTION, ECOLOGY AND GENETICS (3 cr H)

Fall: Three lectures & one 50-min discussion

Prereq: Chem 103, 109, or 115. Focuses on organisms and their interaction with the environment, evolution and transmission of genetics. Com B.

382: EVOLUTION, ECOLOGY AND GENETICS LAB (2 cr H)

Fall: One 3-hour lab & 50-min discussion

Prereq: previous or concurrent enrollment in Biocore 381. Includes lab and field research on ecology in the Biocore Prairie and investigation on genetics and evolution with model systems. Writing intensive, Com B

383: CELLULAR BIOLOGY (3 cr H)

Spring: Three lectures & one 50-min discussion

Prereq: Biocore 381 and Chem 343. Focuses on the structure and function of cells and molecules, energy metabolism, regulation of genetic information, and signal transduction.

384: CELLULAR BIOLOGY LAB (2 cr H)

Spring: One 3-hour lab & 50-min discussion

Prereq: previous or concurrent enrollment in Biocore 383.

Student investigations include use of cell & molecular techniques to explore enzyme catalysis, gene expression, and signal transduction. Writing intensive, Com B.

485: PRINCIPLES OF PHYSIOLOGY (3 cr H)

Fall: Two 90-min lectures & one 50-min discussion

Prereq: Biocore 381 and 383. Considers how animals and plants interact with their environment to survive, obtain nutrients, exchange gases, and reproduce.

486: PRINCIPLES OF PHYSIOLOGY LAB (2 cr H)

Fall: One 3-hour lab & 50-min discussion

Prereq: previous or concurrent enrollment in Biocore 485.

Students learn plant and animal physiology by collaborating on independent research projects. Writing intensive.

587: BIOLOGICAL INTERACTIONS (3 cr H)

Spring: Three lectures & one 50-min discussion

Prereq: Biocore 381, 383 & 485. Integrates concepts from previous lecture courses & the process of science skills developed in lab. Students work in teams to understand and analyze research from current scientific literature.

Integration of Biocore

Example Sequence of how you can fit Biocore into your course plan. Talk with your advisor to obtain your current course requirements.

FRESHMAN YEAR

Fall Semester:

Chem 103, 109, or 115
Math 114, 171, or 221
Biocore 181 - Optional

Spring Semester:

Chem 104 or 343
Math 221, 222, or 217

SOPHOMORE YEAR

Biocore 381 & 382

Chem 343, 344, or 345
Math 222 or Stats 371

Biocore 383 & 384

Chem 344 or 345
Math 222 or Stats 371

JUNIOR YEAR

Biocore 485 & 486

Physics 207
Biochem 501 or 507

Biocore 587

Physics 208
Biochem 508

Admission Process

Biocore is an application based Honors program.

Application options:

1. Regular: most students start as sophomores
 2. Freshman admission for small cohort (~10)
- Apply online. Regular deadline: mid-March but applications accepted until all spots are filled

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UNIVERSITY OF WISCONSIN-MADISON



EVOLUTION, ECOLOGY AND GENETICS



CELLULAR BIOLOGY



PRINCIPLES OF PHYSIOLOGY

**Earn Biocore Honors Certificate
Upon Completion**

The University of Wisconsin-Madison is an AA/EEO institution. University policies create additional protections that prohibit harassment on the basis of cultural background and ethnicity. Inquiries concerning these policies may be directed to appropriate campus admitting or employing unit or to the Office of Equity and Diversity 179-A Bascom Hall, <http://www.oed.wisc.edu> (608) 263-7500

Earn the Biocore Honors Certificate



About

The Biology Core Curriculum (Biocore) is an Honors biology certificate program with an integrated sequence of lecture and lab courses for students who have deep interest in biology and are motivated to spend time learning biology concepts and skills within a supportive community. Biocore fulfills intro to intermediate biology requirements for bioscience majors in Colleges of Ag & Life Science, Letters & Science, Pharmacy, and Engineering.

FAQs

Do I have to take all 4 semesters?

It depends, some majors require only 3 of 4 semesters or 2 of 3 lab courses. Consult your DARS and advisor.

Can I take Biocore if I study abroad?

Yes! Many students study abroad as juniors and complete Biocore as seniors. Others study abroad after the program or in the summer.

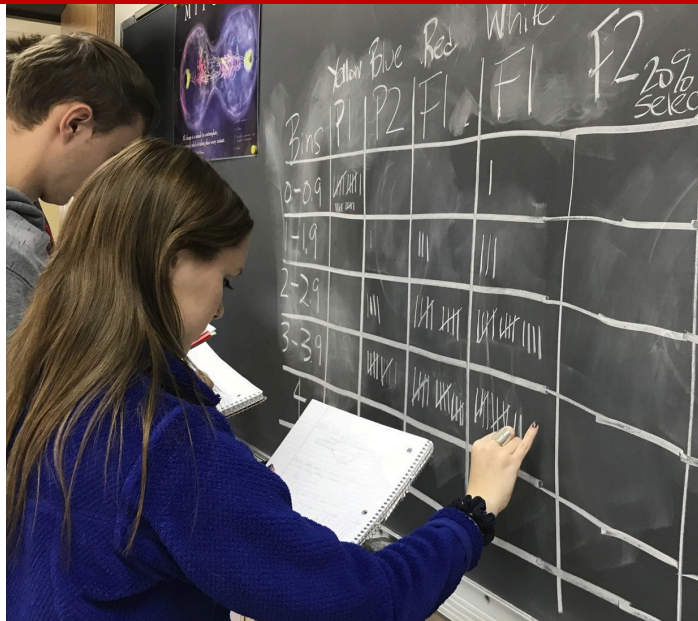
Do graduate schools recognize Biocore?

Many schools know Biocore and students describe the nature of Biocore in applications and letters of recommendation. Biocore has received high praise from the UW SMPH and former Biocore students who say that Biocore provides excellent preparation.

How is Biocore different?

Biocore is a sequence of Honors courses that progress at a challenging pace. We go to greater depth and focus on problem solving, critical thinking, and scientific reasoning. We also have a high instructor/student ratio and a small learning community.

GET INVOLVED



PEER MENTORING AND ADVISING

Get advice and mentoring from experienced Biocore students who have recently gone through the same challenges and offer a better understanding of ways to work through those challenges. Peer advisors aim to be a bridge for prospective students and the program.

BIOCORE OUTREACH AMBASSADORS (BOA)

The mission of the BOA is to work side by side with classroom teachers to enhance science education in rural Wisconsin communities. As an extension of the Biocore Program, the BOA was founded to promote authentic scientific investigation and exploration by K-12 students.

BOARD OF DIRECTORS

Biocore offers an opportunity for a small group of volunteer students to provide essential feedback to their instructors on content, discussions and lab. This open exchange between students and instructors is used to improve the learning environment.

INTERNSHIPS, RESEARCH & THE BIOCORE PRAIRIE

Biocore offers internship and research opportunities in the Biocore Prairie or continuing their own projects from lab. In addition, Biocore is deeply connected to research labs around campus, and provides information on research or internship opportunities throughout the semester.