BIOL - Biology | Undergrad

Global Citizenship Program Knowledge Areas **(....)**	
ARTS	Arts Appreciation
GLBL	Global Understanding
PNW	Physical & Natural World
QL	Quantitative Literacy
ROC	

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physiological experimentation. Laboratory required. Offered in the spring semester. **Prerequisites**: BIOL 3010 and BIOL 3011 or permission of the instructor. **Co-requisites**: BIOL 3020 and BIOL 3021 must be taken concurrently.

BIOL 3050 Genetics (3)
BIOL 3051 Genetics: Lab (1)

Th6d BIOL

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BIOL 4500 Virology (3)

Investigates the fundamental processes of viral evolution, classification, infection of host, pathogenesis, and viral replication. The use of viruses in biomedical research will be presented in order to understand the methodologies for the isolation, identification, and detection of viruses. **Prerequisites**: BIOL 3050, BIOL 3051, BIOL 3080, BIOL 3081 and CHEM 3100, or permission of the instructor.

BIOL 4610 Reading Course (1-4)

May be repeated for credit if content differs. **Prerequisites**: Permission of the department chair and filing of the official form.

BIOL 4700 Independent Research in Biology I (1-4)

A specialized course for students working on an independent, research-oriented project in a topic of current interest. Students should select among the equivalent courses BIOL 4700/CHEM 4700/PHYS 4700 for the one that is most consistent with their chosen project. For BIOL 4700, the topic should have a primary basis in biology. Also offered during the summer term. May be repeated once for credit if content differs. **Prerequisite**: Permission of the instructor.

BIOL 4710 Independent Research in Biology II (1-4)

A specialized course for students working on an independent, research-oriented project in a topic of current interest. Students should select among the equivalent courses BIOL 4710/CHEM 4710/PHYS 4710 for the one that is most consistent with their chosen project. For BIOL 4710, the topic should have a primary basis in biology. Also offered during the summer term. May be repeated once for credit if content differs. **Prerequisite**: Permission of the instructor.

BIOL 4750 Laboratory Teaching Assistant (1-3)

Teaching assistantships benefit students by providing a basic understanding of both the science and logistics of running different types of biology and chemistry labs. The students gain experience in experimental techniques, some pedagogy and overall classroom organization. These skills are useful for those who plan to pursue science teaching professional and are translatable to other types of jobs. Second, teaching assistants are part of a team effort within the biological sciences department to offer meaningful hands on laboratory components of critical courses and develop relationships with faculty members. These faculty-student interactions can lead to letters of recommendation or more long-term mentoring relationships. **Prerequisites**: Students will have taken the laboratory course they will be assisting in with a grade of B or better. Submit laboratory teaching assistant application for department approval.

BIOL 4900 Internship in Biological Sciences (1-3)

This course awards credit for approved research experiences with a business or not-for-profit organization that affords students an opportunity to apply and integrate the knowledge and skills they have gained in the classroom to the real world. **Prerequisite**: Students will submit an application for internship credit to the department chair for approval and determination of credit hours awarded.