

**College: CLAS**

**Department: General Studies: Science**

**Degree: B.A./B.S.**

### **Introduction**

Programs which are of an interdisciplinary nature and which do not conveniently fit within the normal department areas are listed under Interdisciplinary Studies and Liberal Studies.

Students interested in Interdisciplinary Studies will complete their major requirements by taking a concentration of courses in the arts and letters or science or social science academic areas. Students interested in all three categories (arts and letters, science, and social science) major in Liberal Studies by taking upper division courses across all three categories.

Outside of the requirement that Interdisciplinary Studies and Liberal Studies students take Wr 323 or a Writing Intensive Course (WIC), there are no specific courses required for the Interdisciplinary Studies and Liberal Studies majors. To take full advantage of the opportunities afforded these majors, students should plan a program which includes a coherent set of courses providing an in-depth study in the area of special interest as well as providing enhancement of problem-solving and communication skills.

### **Undergraduate Program Learning Outcomes**

Students pursuing a pre-professional course of study will demonstrate ethics within their chosen field.

Students will be able to articulate the meaning of interdisciplinary studies and the value of this degree to their academic and professional interests.

Students will be able to articulate the relationships between at least two science subjects, and be able to articulate how these areas of disciplinary knowledge complement and differ from each other.

Students will be able to connect classroom learning with real-world problems and experiences.

Students will be able to critically evaluate the experimental methods and use of data in the research of scholarly work of others.

Students will be able to effectively communicate knowledge and research to an educated audience in a range of non-written formats.

Students will be able to effectively integrate and properly cite scholarly sources within their own academic work.

Students will be able to find and evaluate scientific sources using the library and appropriate research technologies.

Students will be able to interpret scientific results and draw reasonable conclusions.

Students will be able to solve problems using multiple disciplinary approaches.

Students will be able to think critically and analyze problems from multiple points of view.

Students will be able to work effectively in groups with people from diverse backgrounds.

Students will be able to write in a range of genres, for varied purposes and audiences.

Students will demonstrate advanced disciplinary knowledge in at least two science subjects.

Students will demonstrate an understanding of research ethics in the sciences.

Students will demonstrate an understanding of the discourse conventions of scientific reporting in at least two science disciplines.

Students will use effective processes to generate, compose, organize, revise, and present writing.