Interdisciplinary Science

at Arcadia University

Global Perspective…Personal Attention…Real-World Integrative Learning Experiences

Adviser

Associate Professor Dr. Emanuale Curotto

Degree

Bachelor of Arts in Interdisciplinary Science

Related Study at Arcadia

Bachelor of Arts in Interdisciplinary Science from Arcadia University and Doctor of Optometry from Salus University (3+4 Program)

Engineering Combined Program with Columbia University, five-year and six-year options

Pathways to Study Abroad

Interdisciplinary majors are encouraged to spend a semester or year studying overseas. Exciting opportunities are available through the University's Center for Education Abroad and are relatively easy to arrange. With prior approval, courses taken at foreign universities can be transferred to Arcadia to fulfill Undergraduate Curriculum, including major, requirements. A list of interdisciplinary courses that transfer is available from the Chair of the Department.

Generally, the sophomore and junior years are the most convenient time for Arcadia students to study abroad, although the second semester of the first year and the first semester of the senior year also are possibilities.

Arcadia University has special arrangements with universities or runs its own programs in England, Scotland, Wales, and Northern Ireland, Australia, France, India, Greece, IrelandFrance, Germany, New Zealand, Spain, South Africa and Tanzania.

Visit the University's website for Pathways to Study Abroad (www.arcadia.edu/pathways). Since it is important that students plan ahead for study abroad, they should consult with their advisers as soon as possible and make their intentions known to the Department Chair and the Associate Dean of International Affairs.

About the B.A. in Interdisciplinary Science

- Preparation for Optometry and Engineering "combined" programs
- Preparation for graduate school
- Preparation for health-care professions
- Compatible for transfer students
- Opportunities to study abroad at some of the top universities around the world

The major in Interdisciplinary Science provides an opportunity to build a four-year program on a solid core of courses in Biology, Chemistry, Mathematics and Physics. While the major is specifically designed for the Optometry and Engineering combined programs, it also is particularly valuable for the following:

- Students interested in professional employment or graduate study in biochemistry, pharmacology, physiology, nutritional science, immunology, clinical chemistry, or pharmaceutical science.
- Students interested in preparing for professional careers in dentistry, medicine, osteopathy, veterinary medicine, or related medically allied fields.
- Transfer students who want to complete a science major within two years geared toward a variety of careers.

Requirements for the Major

(68 credits as listed below, with Undergraduate Curriculum requirements and electives to total 128.)

Course substitutions in keeping with a student's intended career can be made with the approval of the program adviser.

1. Four courses in Chemistry

CH	101, 102	General Chemistry I, II or
CH111, CH 112		Conceptual Chemistry
CH	201, 202	Organic Chemistry: Structure, Mechanisms and Reactions

2. Three or four courses in Biology

BI	101, 102	General Biology I, II
BI	205, 206	Human Anatomy, Human Physiology
or BI 211		Comparative Anatomy and Physiology

3. Two courses in Physics

PH	201, 202	Fundamental Concepts of Physics I, II
or PH 211, 212		Conceptual Physics I, II

4. One of the following courses in Biology or Chemistry:

BI	325	Cell Biology
or CH 203		Equilibrium and Analysis

5. A minimum of four electives (or five courses if BI 211 is completed) in Chemistry, Physics or Biology. Included must be either BI 490 or CH 490.

6. Two courses in Mathematics or Computer Science

7. Recommended

PL	160	Symbolic Logic

One year or more of a Modern Language.
Appropriate Mathematics electives.
Courses in Science Education, for students who plan to teach.