# ENVIRONMENTAL EDUCATION

## at Arcadia University

***Global Perspectives…Personal Attention…Real-World Integrative Learning Experiences***

This is a 3+2 program.

## Adviser

**Assistant Professor**
Dr. Julia Plummer (for Graduate program)
**Assistant Professor**
Dr. Chris Binckley (for Undergraduate program)

## Degrees

**Bachelor of Arts in Biology** and **Master of Arts in Education with a concentration in Environmental Education** (3+2 program)

## Pathways to Study Abroad

Students are strongly encouraged to take a semester abroad. Visit the University's Web site for Pathways to Study Abroad (www.arcadia.edu/pathways) for suggested course sequences.

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 Director of International Services.

## About the 3+2 Environmental Education Accelerated Program

- Accelerated program leading to bachelor's and master's degrees in just five years
- Option to complete in six years
- Preparation for career in environmental education
- Specialized certification for teachers
- Senior research project
- Opportunities to study abroad at some of the top universities in the world

Environmental Education is an accelerated program for students interested in a foundation in the biological sciences leading to a career in environmental education.

The five-year accelerated 3+2 program awards a Bachelor of Arts in Biology and a Master of Arts in Education (M.A.Ed.) with specialized certification in Environmental Education. Students in this program also can work toward a Pennsylvania teaching certificate in Environmental Education (K-12).

Interested students register as Biology majors with a concentration in Conservation Biology and will complete most required courses for the undergraduate major within their first three years and begin graduate courses in the summer following the junior year.

**Senior Capstone Experience:** In the senior year, students complete the Senior Seminar in Biology, which includes their thesis research and its poster presentation.

Upon entry to Arcadia, students must notify their advisers as to their interest in this program and its options to ensure that they take the required sequence of courses. Students must apply for the 3+2 program midway through the junior year and, because this is an accelerated program, must have at least a 3.0 GPA at that time.

In the summer of the junior year, students start taking graduate courses leading toward the master's degree.

Students who do not meet the eligibility requirements of this accelerated program or who want more flexibility in their undergraduate program can take both degrees, the B.A. in Biology and the M.A.Ed. in Environmental Education, in the normal sequence.

## Requirements for the B.A. in Biology and the M.A. in Education

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

1. Nine courses in Biology

| | | |
|---|---|---|
| BI | 101, 102 | General Biology I, II |
| BI | 201 | Evolution and Population Biology |
| BI | 204 | Genetics |
| BI | 211 | Comparative Anatomy and Physiology |

| | | |
|---|---|---|
| BI | 222 | Plant Biology |
| | or BI 329 | Ecology (Recommended) |
| BI | 242 | Biological Research Methods |
| BI | 290 | Junior Seminar in Biology (2 credits) |
| BI | 490 | Senior Seminar in Biology (4 credits) |

2. Two courses in Chemistry

| | | |
|---|---|---|
| CH | 101, 102 | Modern Chemical Concepts I, II |
| OR CH | 111,112 | Conceptual Chemistry: I, II |

3. Two cognate courses in Mathematics (MA 110 or higher), or Chemistry (CH 201 or higher), or Physics (PH 201, 202, 211, or 212)

4. Three additional Biology electives at the 300 level. Aquatic Biology (BI 331) is recommended. (For some career goals, additional electives may be necessary.)

## Master's-Level Courses

(The M.A.Ed. in Environmental Education requires 30 graduate credits.)

1. Two Foundations of Education courses (any course between ED 501 and 510; ED 503 is recommended)

2. A minimum of five Environmental Studies courses
The following courses are offered in cooperation with the Schuylkill Center for Environmental Education:

| | | |
|---|---|---|
| ES | 501 | Introduction to Environmental Studies |
| ES | 502 | Field Natural History |
| ES | 503 | Meteorology |
| ES | 504 | Human Ecology: Use of Natural Resources |
| ES | 505 | Earth Science |
| ES | 506 | Society and the Environment |
| ES | 510 | Introduction to Field Studies |
| ES | 511 | Aquatic Ecology |

3. Electives and Education Courses may be selected to complete the remaining credits.

4. Culminating Project (ED 596 or ES 589; chosen in consultation with the Science Education coordinator)

Additional courses in Education and Environmental Science will be required if the student is working toward a Pennsylvania certification. This program must be worked out with the Science Education Coordinator.