

# ECOLOGY AND EVOLUTIONARY BIOLOGY (EEB)

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*Any experimental courses offered by EEB can be found at:*

registrar.iastate.edu/faculty-staff/courses/explistsings/ (<http://www.registrar.iastate.edu/faculty-staff/courses/explistsings/>)

**Courses primarily for graduate students, open to qualified undergraduates:**

**EEB 511: Conceptual Foundations in Ecology and Evolutionary Biology**

(3-2) Cr. 4. F.

*Prereq: Graduate classification*

Introduction to key figures and ideas that have shaped the development of ecology and evolutionary biology. Covers major developments in ecology and evolutionary biology at five levels of biological organization: Genome, Organism, Population, Community, and Ecosystem. Impacts of these developments on current approaches to investigation and argument formulation. Effects of technological advances on the direction of scientific investigations. Introduction to analytical skills important for critical thinking in ecology and evolutionary biology and the impact of accepted lines of scientific reasoning on the objectives and conduct of research, such as explanation and prediction, design of studies as experimentation, and structured or unstructured observation.

**EEB 585: Extended Field Trip**

(1-6) Cr. 2. Repeatable. Alt. F., offered irregularly. Alt. S., offered irregularly. Alt. SS., offered irregularly.

*Prereq: Graduate classification, permission of instructor*

Extended field trip to study major terrestrial and aquatic ecosystems. Location and duration vary. Report required.

**EEB 585A: Extended Field Trip: Pre-Trip Lecture**

(1-0) Cr. 1. Repeatable. Alt. F., offered irregularly. Alt. S., offered irregularly. Alt. SS., offered irregularly.

*Prereq: Graduate classification, permission of instructor*

Extended field trip to study major terrestrial and aquatic ecosystems. Location and duration vary. Report required.

**EEB 585B: Extended Field Trip: Travel**

(0-6) Cr. 1. Repeatable. Alt. F., offered irregularly. Alt. S., offered irregularly. Alt. SS., offered irregularly.

*Prereq: Graduate classification, EEB 585A and permission of instructor.*

Extended field trip to study major terrestrial and aquatic ecosystems. Location and duration vary. Report required.

**EEB 590: Special Topics**

Cr. 1-3. Repeatable. F.S.SS.

*Prereq: Graduate classification and permission of instructor*

For students wishing to conduct in-depth study of a particular topic in ecology and evolutionary biology.

**Courses for graduate students:**

**EEB 698: Seminar**

(1-0) Cr. 1. Repeatable. F.S.

Reports and discussion of recent research and literature.

**EEB 699: Research**

Cr. arr. Repeatable. F.S.SS.

Thesis and dissertation research.