ANIMAL BEHAVIOR, ECOLOGY, AND CONSERVATION (BS)

Chair: Sue Margulis, PhD (margulis@canisius.edu)

Introduction
The Animal Behavior, Ecology, and Conservation Program combines the rigorous scientific study of Animal Behavior with a values-focused curriculum in the liberal arts tradition. It is for students who want to thoroughly understand the facts and theoretical underpinnings of animal behavior and who want to use that understanding to promote animal welfare and wildlife conservation. For a more detailed description of the program, faculty, facilities, academic and co-curricular opportunities please go to the ABEC website (https://www.canisius.edu/academics/programs/animal-behavior-ecology-and-conservation/).

Qualifications
Students must maintain a 2.0 GPA in their major and a 2.0 overall average to graduate with a degree in Animal Behavior, Ecology, and Conservation.

Advisement
All students should have an advisor in the major and should contact the department directly to have an advisor assigned if they do not already have one. Meetings with academic advisors are required prior to students receiving their PIN for course registration each semester. All majors should work closely with their advisor in discussing career expectations, choosing their major electives, developing their entire academic program and planning their co-curricular or supplemental academic experiences.

Double Majors
Students who wish to expand their educational opportunities may decide to declare a double major. This decision may be based on career goals, planned graduate studies, and/or other student interests. Before a student declares a double major, it is important to meet with the appropriate academic departments for advisement. In order to declare a double major, the student must complete the appropriate double major request form and get the signature of each department chairperson and the appropriate associate dean.

Per college policy, each additional major requires a minimum of 15 credits that do not apply to the student’s first or subsequent major. Some double major combinations can be completed within the minimum 120 credit hour degree requirement, but in other cases additional coursework may be required. Please note that students will receive only one degree, regardless of the number of majors they complete.

Minors in Other Disciplines
Minors provide students the opportunity to pursue additional interests but generally do not require as many courses as a major. Minors generally range from five to eight required courses. To receive a minor, the student must complete at least 9 credit hours of coursework distinct from their other credentials (i.e., majors, other minors). The minors page (http://catalog.canisius.edu/undergraduate/minors/) provides a complete list of minors and provides links to each minor. Some majors and minors can be completed within the minimum 120 credit hour degree requirement, but in some cases additional coursework may be required. Students must complete the appropriate minor request form.

ABEC majors often choose to pursue one or more of the minors offered within the department (p. 3). Additionally, ABEC majors interested in informal education should consider the education minor (http://catalog.canisius.edu/undergraduate/school-education-human-services/educator-preparation/#minortext) offered in the School of Education and Human Services.

Major Experiences
Many elective courses involve travel, field work, and/or service. The department also offers numerous internship opportunities. Students are encouraged to participate in these experiences.

Curriculum
An Ignatian Foundation
All undergraduate students must complete either the Canisius Core Curriculum (http://catalog.canisius.edu/undergraduate/academics/core-curriculum/) or the All-College Honors Curriculum (http://catalog.canisius.edu/undergraduate/academics/core-curriculum/all-college-honors-program/). Many schools refer to their college-wide undergraduate requirements as “general education” requirements. We believe that the core curriculum and the honors curriculum are more than a series of required classes; they provide the basis for a Jesuit education both with content and with required knowledge and skills attributes that are central to our mission.

Free Electives
Students may graduate with a bachelor’s degree with more but not less than 120 credit hours. Free electives are courses in addition to the Canisius Core Curriculum or All-College Honors Curriculum and major requirements sufficient to reach the minimum number of credits required for graduation. The number of credits required to complete a bachelor’s degree may vary depending on the student’s major(s) and minor(s).

Major Requirements
The ABEC major requires 7 courses, plus a total of 24 additional credits from elective courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ABEC 101</td>
<td>Introductory Animal Behavior I</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 102</td>
<td>Introductory Animal Behavior II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 111</td>
<td>Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and Introductory Biology Laboratory I</td>
<td></td>
</tr>
<tr>
<td>BIO 112</td>
<td>Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>and Introductory Biology Laboratory II</td>
<td></td>
</tr>
<tr>
<td>Select one of the following conservation courses:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIO 322</td>
<td>Conservation Biology</td>
<td></td>
</tr>
<tr>
<td>ABEC 333</td>
<td>Conservation Behavior</td>
<td></td>
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<tr>
<td>ABEC 335</td>
<td>Conservation Education</td>
<td></td>
</tr>
<tr>
<td>Select one of the following math courses:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>MAT 131</td>
<td>Statistics for Social Sciences</td>
<td></td>
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<tr>
<td>MAT 141</td>
<td>Inferential Statistics and Computers for Science</td>
<td></td>
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<tr>
<td>PSY 201</td>
<td>Basic Statistics for Behavioral Sciences</td>
<td></td>
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<tr>
<td>PHI 245</td>
<td>Animal Ethics</td>
<td>3</td>
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</tbody>
</table>
Major Electives (chosen from the list below)  24
Total Credits  47-48

**Major Electives**
Twenty four credits must derive from the following electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ABEC 216</td>
<td>Topics in Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 217</td>
<td>Connecting ABEC to the Wider World</td>
<td>3</td>
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<tr>
<td>ABEC 219</td>
<td>Diversity of Life</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 220</td>
<td>Animal Learning &amp; Animal Learning Lab</td>
<td>4</td>
</tr>
<tr>
<td>ABEC 250</td>
<td>Zoo Animal Husbandry</td>
<td>1</td>
</tr>
<tr>
<td>ABEC 251</td>
<td>Zoo Animal Management</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 303</td>
<td>Shelter Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 305</td>
<td>Assessing Animals</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 332</td>
<td>Animal Welfare</td>
<td>3</td>
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<tr>
<td>ABEC 333</td>
<td>Conservation Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 335</td>
<td>Conservation Education</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 339</td>
<td>Animal Enrichment</td>
<td>3</td>
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<tr>
<td>ABEC 340</td>
<td>Research Methods in Animal Behavior</td>
<td>3</td>
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<tr>
<td>ABEC 341</td>
<td>Urban Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 341L</td>
<td>Urban Ecology Lab (optional)</td>
<td>1</td>
</tr>
<tr>
<td>ABEC 342</td>
<td>Animal Geographies</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 343</td>
<td>Zoogeography</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 345</td>
<td>Herpetology</td>
<td>3</td>
</tr>
<tr>
<td>ABEC 345L</td>
<td>Herpetology Lab</td>
<td>1</td>
</tr>
<tr>
<td>ABEC 346</td>
<td>Integrative Behavior</td>
<td>3</td>
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<tr>
<td>ABEC 347</td>
<td>Avian Conservation and Management</td>
<td>3</td>
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<tr>
<td>ABEC 351</td>
<td>Zoo Exhibit</td>
<td>1</td>
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<tr>
<td>ABEC 356</td>
<td>Observational Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>ABEC 363</td>
<td>Dog Evolution, Behavior and Cognition</td>
<td>3</td>
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<tr>
<td>ABEC 370</td>
<td>Animal Cognition</td>
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<tr>
<td>ABEC 402</td>
<td>Desert Conservation</td>
<td>3</td>
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<tr>
<td>ABEC 403</td>
<td>Tropical Ecology</td>
<td>3</td>
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<tr>
<td>ABEC 404</td>
<td>Wildlife Ecology and Conservation in Africa</td>
<td>3</td>
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<tr>
<td>ABEC 405</td>
<td>Biocultural Diversity Conservation in Costa Rica</td>
<td>3</td>
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<tr>
<td>ABEC 490</td>
<td>Canisius Ambassadors for Conservation (credit may vary)</td>
<td>4</td>
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<tr>
<td>ABEC 491</td>
<td>Internship 1</td>
<td>3</td>
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<tr>
<td>ABEC 492</td>
<td>Internship 2</td>
<td>3</td>
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<tr>
<td>ABEC 495</td>
<td>Independent Research</td>
<td>3</td>
</tr>
<tr>
<td>BIO 301</td>
<td>Research Methods (credit)</td>
<td>1</td>
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<tr>
<td>BIO 312</td>
<td>Primatology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 317</td>
<td>Sex, Evolution and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BIO 320</td>
<td>Field Ecology &amp; Field Ecology Lab</td>
<td>4</td>
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<tr>
<td>BIO 322</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 343</td>
<td>Entomology &amp; Entomology Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIO 357</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO 364</td>
<td>Zoology: Diversity of Animal Life</td>
<td>3</td>
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</tbody>
</table>

**Roadmap**

Recommended Semester Schedule for Major Course Requirements:

**Freshman**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ABEC 101</td>
<td>ABEC 102</td>
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<tr>
<td>BIO 111  &amp; 111L</td>
<td>BIO 112  &amp; 112L</td>
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</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>BIO 317</td>
<td>PHI 245 (ABEC elective)</td>
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</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ABEC elective</td>
<td>ABEC elective</td>
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<tr>
<td>ABEC elective</td>
<td>ABEC elective</td>
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</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ABEC elective</td>
<td>ABEC elective</td>
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</tbody>
</table>

**Learning Goals & Objectives**

**Student Learning Goal 1**

Students will demonstrate factual knowledge and theoretical understanding in the field of animal behavior. Students will:

**Objective A:** Demonstrate mastery of topics: animal phylogeny-taxonomy, evolution of behavior, proximate causes of behavior, and anthropogenic impacts on non-human animals and the environment

**Objective B:** Separate observations from inferences
Student Learning Goal 2
Students will demonstrate practical knowledge and appropriate application of animal behavior and conservation in two of the following settings: domestic animals, captive wildlife, free-ranging wildlife
Students will:
Objective A: Generate realistic and effective solutions to simulated behavior problems in captive or domestic animals
Objective B: Generate realistic and effective solutions to simulated conservation problems
Objective C: Critically evaluate ethical implications of use or management of non-human animals

Student Learning Goal 3
Students will demonstrate scientific literacy and communication about science in written or oral form
Students will:
Objective A: Critically evaluate primary literature
Objective B: Interpret data
Objective C: Clearly articulate scientific ideas, concepts, and controversies

Minors
The ABEC program offers four minors for students who wish to concentrate in specific areas:

- Anthrozoology Minor (http://catalog.canisius.edu/undergraduate/college-arts-sciences/animal-behavior-ecology-conservation/anthrozoology-minor/)
- Conservation Minor (http://catalog.canisius.edu/undergraduate/college-arts-sciences/animal-behavior-ecology-conservation/conservation-minor/)
- Zoo Biology Minor (http://catalog.canisius.edu/undergraduate/college-arts-sciences/animal-behavior-ecology-conservation/zoo-biology-minor/)

For the ABEC minors, courses may be taken independently of the others and in any order. Interested students usually begin with the course that best fits their schedule. Most of the courses are offered every other year, so interested students should plan accordingly.

Additionally, the ABEC department contributes to the Education Minor (http://catalog.canisius.edu/undergraduate/school-education-human-services/educator-preparation/iminortext). ABEC majors with an interest in informal education may be interested in this minor. This minor does not lead to teacher certification.

Please note, to receive a minor, a student must complete at least 9 credit hours of coursework distinct from their other credentials (i.e., majors, other minors). Please note that “ancillary/supporting” courses required for a major may still count as distinct courses as long as the remaining coursework still meets the 30 credit-hours required for a major.

Courses

ABEC 101 Introductory Animal Behavior I
This course covers a broad overview of animal behavior, from the ideas and theories that have shaped the field to basic approaches used to study behavior. We will discuss behavior from a variety of animals, ranging from insects to mammals (including humans!). Special attention will be given to examining the research that shapes the field.
Offered: every fall.

ABEC 102 Introductory Animal Behavior II
Foundational evolutionary and ecological theories in Animal Behavior. Explore key behaviors that lead to an animal’s survival including foraging, mating, habitat selection, and social behavior as well as methods to study animal behavior. Also compare animal behavior in the news to the scientific literature.
Offered: every spring.

ABEC 216 Topics in Animal Behavior
Topics in animal behavior will cover varying subdisciplines within animal behavior to offer students an in-depth learning experience. Topics may include areas such as companion animal care, wildlife rehabilitation, captive management, and educating about wildlife.
Prerequisite: ABEC101 or ABEC102.
Offered: occasionally.

ABEC 217 Connecting ABEC to the Wider World
This course aims to introduce and explore the many ways that a degree in Animal Behavior, Ecology, and Conservation (including the four minor areas of Anthrozoology, Animal Behavior, Conservation, and Zoo Biology) is beneficial across a variety of professions. Through readings, discussion and interviews with professionals at various stages of their careers, students will learn how to leverage their academic experience in pursuit of a successful professional career.
Prerequisite: ABEC 101 or ABEC 102 (may be taken concurrently).
Offered: occasionally.

ABEC 219 Diversity of Life
Explore the immense diversity of life from an evolutionary perspective. This course will focus on the characteristics and ecological functions of the major groups of prokaryotes, protists, plants, fungi, and animals.
Prerequisite: ABEC 101 and ABEC 102 (may be taken concurrently).
Offered: once a year.

ABEC 220 Animal Learning
Animal learning and memory research with emphasis on practical animal training. Lab required.
Prerequisites: ABEC 101 & ABEC 102. Corequisite: ABEC 220L.
Offered: every spring.

ABEC 220L Animal Learning Lab
Required animal learning lab that emphasizes practical animal training.
Prerequisites: ABEC 101 & ABEC 102. Corequisite: ABEC 220.
Offered: every spring.

ABEC 250 Zoo Animal Husbandry
Topics in animal husbandry in the zoo setting. Focus is on the specific needs of different taxonomic groups, environmental management, veterinary monitoring, nutrition, and programming.
Prerequisites: ABEC 101 & ABEC 102.
Offered: Spring of odd-numbered years.
ABEC 25I Zoo Animal Management  3 Credits
Modern practices in zoo mission implementation. Focus on managing many facets of zoos: individual animals, populations of animals, visitors, research, education, staff, and budgets. The course is highly project-based and involves considerable group work and participation.
Prerequisites: ABEC 101 & ABEC 102.
Offered: every spring.

ABEC 300 Research Participation (no credit)  0 Credits
Recognition for ABEC research assistants, does not carry and credits.
Restriction: permission of instructor.
Offered: every semester.

ABEC 301 Research Participation (credit)  1 Credit
Recognition for ABEC research assistants. Can be taken up to 3 times for major elective credit; more than three times credit is free-elective.
Restriction: permission of instructor.
Offered: every semester.

ABEC 303 Shelter Behavior  3 Credits
This course will expose students to a variety of animal sheltering models. Students will assess the impacts of each type of model on the behavior of shelter animals and prospective adopters. Students will also take an in-depth look at why so many animals are relinquished to shelters and at the programs shelters have established to help keep pets in their homes.
Prerequisites: ABEC 101 and ABEC 102.
Offered: every fall.

ABEC 305 Assessing Animals  3 Credits
Assessing Animals will focus on applied behavioral analysis of non-human animals through various methodologies including functional assessments. Students will learn how to use such assessments to achieve behavioral goals through problem solving strategies for non-human animals. Occasional (1-2) weekend days may be required.
Prerequisites: ABEC 101 & ABEC 102.
Offered: every fall.

ABEC 319 Anthrozoology  3 Credits
An engagement with the fundamental issues of the field of Anthrozoology by evaluating the history of human/ nonhuman interactions, the categories into which humans have sorted animals, and a variety of science-based and value-based approaches to humans’ inevitable intersection with other living beings.
Prerequisite: ABEC 101 & ABEC 102.

ABEC 322 Animal Welfare  3 Credits
This course will examine critical debates and controversies surrounding our care and use of animals. We will use a case study approach, and use scientific research to evaluate real world issues in animal welfare. The case studies will cover companion animals, wildlife, zoo animals, and animals used in agriculture and research. This course involves significant writing.
Prerequisite: ABEC 101 & ABEC 102. Restriction: juniors and seniors only.
Fulfills College Core: Advanced Writing-Intensive
Offered: every spring.

ABEC 333 Conservation Behavior  3 Credits
How human activity has altered the planet and how those modifications affect the behavior of animals. Review of key principles through the lens of Behavioral Ecology in regards to species requirements for survival, major threats to species existence, and conservation solutions to reduce those threats. Identification of positive human behavior for conservation outcomes.
Prerequisites: ABEC 101 & ABEC 102.
Offered: every fall.
ABEC 345 Herpetology 3 Credits
This course will explore the diversity, evolutionary relationships, ecology, behavior, and conservation of reptiles and amphibians.
Prerequisite: BIO 111 & BIO 112.
Offered: fall of even-numbered years.

ABEC 345L Herpetology Lab 1 Credit
Optional laboratory for ABEC 345 (herpetology) covers field techniques, applied conservation methods, taxonomic diversity, and identification of local species. Seats in the laboratory section are first come, first serve.
Prerequisite: BIO 111 & BIO 112. Corequisite: ABEC345.
Offered: fall of even-numbered years.

ABEC 346 Integrative Behavior 3 Credits
Integrating numerous fields of Biology, this course will examine both proximate and ultimate causes of behavior, focusing on the neuroendocrine mechanisms that lead to the expression of behavior within given ecological contexts. Emphasis will be given to understanding historical and recent primary literature.
Prerequisite: ABEC101 and ABEC102.
Offered: spring of odd-numbered years.

ABEC 347 Avian Conservation and Management 3 Credits
Application of ecological and behavioral principles to the conservation and management of birds. Combines classroom and field experiences to explore applied aspects of anatomy, physiology, taxonomy, and behavior in the conservation and management of major North American avian groups and their habitat.
Prerequisite: ABEC 101 and ABEC 102.
Offered: occasionally.

ABEC 351 Zoo Exhibitry 1 Credit
Critical evaluation of zoo design principles. Involves travel to obtain first-hand study of distant zoological institutions. Additional fee required. Cost varies based on destination, but generally are between $200 and $350.
Prerequisite: ABEC 101 or ABEC 102.
Offered: annually.

ABEC 360 Observational Research Methods 4 Credits
Study of the principal procedures used in animal behavior research. Involves the conduct of independent research project, from formulation of hypothesis through to presentation of results. Statistical analysis of data is a key component of the class, and students are expected to have completed their statistics requirement.
Prerequisites: ABEC 101, ABEC 102, & one of the following: MAT 131, MAT 141, or PSY 201. Restriction: juniors and seniors only.
Fulfills College Core: Advanced Writing-Intensive
Offered: spring of odd-numbered years.

ABEC 363 Dog Evolution, Behavior and Cognition 3 Credits
Introduction to the latest theories regarding how dogs evolved and were domesticated; how dogs communicate with humans and with each other, exposure to ground-breaking research into dog behavior, learning, cooperation, and cognition.
Prerequisites: ABEC 101 & ABEC 102. Restriction: juniors and seniors only.
Offered: every spring.

ABEC 370 Animal Cognition 3 Credits
This course will critically examine the mental lives of animals. We will attempt to better understand what animals are thinking and how and why they make particular decisions. The emphasis of this course is on critically evaluating research claiming to demonstrate or refute the presence of cognitive abilities across species. Topics studied will include perception, tool use, communication, emotions, and many more.
Prerequisite: ABEC 101 & ABEC 102. Restriction: juniors and seniors only.
Offered: every spring.

ABEC 402 Desert Conservation 3 Credits
This field course will focus on the complex desert ecosystems of the United States and conservation efforts. A week of summer travel will include visits to National Parks and Wildlife Refuges, Nature Preserves, and remote field study sites. Additional fee required will cover all travel costs. Please contact the course instructor for current fees.
Prerequisite: ABEC101 and ABEC102.
Offered: occasionally.

ABEC 404 Wildlife Ecology and Conservation in Africa 3 Credits
Field experience in Africa, emphasizing field methods for animal observation, community-based conservation, and wildlife behavior and management. This course involves early application (previous fall), AND travel during summer. Additional fee required. Please contact the course instructor for current fees.
Prerequisite: ABEC 101 & ABEC 102. Restriction: seniors only and permission of instructor.
Fulfills College Core: Core Capstone
Offered: every fall.

ABEC 405 Biocultural Diversity Conservation in Costa Rica 3 Credits
This field course provides an in-depth look at the complex sociocultural and political aspects of wildlife conservation and environmental sustainability by immersing students in research, workshops, readings, and discussions with local community groups and conservation experts in Costa Rica. We will travel to the capital of San Jose, where we will meet with professors working at University for Peace, to learn about some of the history around conservation, indigenous peoples, and sustainability in Costa Rica. We will also learn about current work being done at the national and local level in areas of environmental education and community advocacy. We will then travel to Santa Elena to spend five days engaged in wildlife tours, participating in education workshops, and hearing from guest speakers about re-wilding projects, river protection, sustainable farming, and new ecotourism programs. Finally, we will travel to the beautiful coastal town of Manuel Antonio to stay and volunteer with Kids Saving the Rainforest, a non-profit organization dedicated to wildlife rehabilitation, environmental education, and conservation of wildlife. We will work with the public in small research projects at Manuel Antonio National Park to learn about human-wildlife interactions there. Additional fee required. Please contact the course instructor for current fees.
Prerequisites: ABEC 101 & ABEC 102.
Offered: fall of odd-numbered years.

ABEC 491 Internship 1 3 Credits
Internship in animal-related setting. Joint supervision by faculty and agency personnel. Application of classroom lessons to real-world situations. Students should register for the section most closely related to the internship activities. Section A is Anthrozoology, Section B is Animal Behavior, Section C is Conservation, and Section Z is Zoo Biology.
Prerequisites: ABEC 101 and 102, junior or senior standing, minimum GPA of 2.0 in the major, a positive recommendation from a faculty member, & a completed & approved internship application.

ABEC 492 Internship 2 3 Credits
Internship in animal-related setting. Joint supervision by faculty and agency personnel. Application of classroom lessons to real-world situations. Students should register for the section most closely related to the internship activities. Section A is Anthrozoology, Section B is Animal Behavior, Section C is Conservation, and Section Z is Zoo Biology.
Prerequisites: junior or senior standing, minimum GPA of 2.0 in the major, a positive recommendation from a faculty member, & a completed & approved internship application.
ABEC 495 Independent Research 3 Credits
Independent project conducted under the supervision of a faculty member.
Prerequisites: ABEC 101 & ABEC 102. Restriction: permission of instructor.