Class Schedule - Fall 2019

Integrative Biology

Integrative Biology, School of
Director of the School of Integrative Biology: Carla Caceres
School Office: 286 Morrill Hall, 505 South Goodwin Avenue, Urbana
Phone: 217-333-3044
www.sib.illinois.edu

IB 100  Biology in Today's World  credit: 3 hours.
Introduction to biology for the non-major. In-depth focus on three contemporary problems-maintaining a livable environment, issues of human health, and evolution.
This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Life Sciences

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<th>CRN</th>
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Nat Sci & Tech - Life Sciences course.
Course meets October 21, 2019– December 11, 2019. This is an online course taught in the Moodle course management system with no classroom sessions. Although there are no scheduled meeting times, there are weekly assignment and project due dates. Most assessments will be conducted online. The final exam will be F-2-F December 13-20, and will be arranged by the instructor with the Office of the Registrar to avoid conflicts. Additional course information is available at: http://www.life.illinois.edu/bio100/ib100onl.html.

IB 104  Animal Biology  credit: 4 hours.
Introductory zoological concepts with emphasis on the diversity and comparative anatomy of animals and the fundamentals of physiology, genetics, evolution, and behavior. Lecture and laboratory. The laboratory includes vertebrate dissection.

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IB 105  **Environmental Biology**  credit: 3 hours.

Introduction to ecological principles in relation to understanding environmental problems; course emphasizes impacts upon ecosystems by human activities such as air and water pollution, usage of pesticides and pest control measures, expansion of agriculture in tropics and arid regions, harvesting the oceans, and development of energy sources.

This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Life Sciences

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Nat Sci & Tech - Life Sciences course.

In this face to face learning course, classroom discussion section meetings will alternate with on-line computer activities every other week.

| 55534   | Discussion/Recitation | ADE     | 02:00 PM - 02:50 PM | T    | 2090 - Natural History Building | Harmon-Threatt, A   |

Nat Sci & Tech - Life Sciences course.

| 55520   | Lecture              | AL1     | 01:00 PM - 01:50 PM | TR   | 2083 - Natural History Building | Harmon-Threatt, A   |

Credit Hours: 3 hours
Nat Sci & Tech - Life Sciences course.

| 66854   | Online               | LN2     | ARRANGED-           | -    | -                         | Punyasena, S       |

Credit Hours: 3 hours
Nat Sci & Tech - Life Sciences course.
Course meets October 21- December 11, 2019. This online course is taught fully online in the Moodle course management system with no classroom sessions. Although there are no scheduled meeting times, there are weekly assignment and project due dates. Most assessments will be conducted online. Final exams will be F-2-F December 13-20, and will be arranged by the instructor with the Office of the Registrar to avoid conflicts. Further information at: http://www.life.illinois.edu/ib/105/online/.

IB 108  **The Biology of Dinosaurs**  credit: 3 hours.

The origin, diversity, and extinction of dinosaurs will serve as a conceptual framework to explore fundamental principles of biology. We will consider dinosaurs as animals, examining evidence for their physiology and behavior, and how evolution and speciation produced the diversity of dinosaurs. We will relate the influence of Earth's changing environments on dinosaurs to environmental change on human timescales. We will emphasize how scientists collect and evaluate fossil data through an understanding of living organisms.

This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Life Sciences

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Nat Sci & Tech - Life Sciences course.
3 hours. This course satisfies the General Education Criteria for a Life Sciences course. Course meets October 21– December 11, 2019. This is an online course taught in the Moodle course management system with no classroom sessions. Although there are no
scheduled meeting times, there are weekly assignment and project due dates. Most assessments will be conducted online. The final exam will be face-to-face December 13-20, and will be arranged by the instructor with the Office of the Registrar to avoid conflicts.

**IB 150  Organismal & Evolutionary Biol**  
credit: 4 hours.

Introduction to physiology, genetics, and evolution of organisms, and their ecology and diversity.

This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Life Sciences

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Restricted to students with Freshman class standing.

This section is reserved for LAS Freshmen during summer registration.
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### Nat Sci & Tech - Life Sciences course.

IB 150 section ADP is the James Scholars Honors section. Restricted to James Scholars Program students and first time freshman. Restricted to James Scholars Program students.

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### Nat Sci & Tech - Life Sciences course.

Restricted to students with Freshman class standing.

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### Nat Sci & Tech - Life Sciences course.

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### Nat Sci & Tech - Life Sciences course.

Restricted to Liberal Arts & Sciences.

Restricted to students in merit or LAS AAP (LAS, EOP, PAP students) programs. Department approval required. Concurrent enrollment for 1hr credit in IB 199 is required. (See IB 199)

Restricted to EOAP Std Ath&Affil-LAS AAP, EOP - Obligatory, Pres Award Program Recip, President's Award Honors, or AAP - Undeclared students.

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<th>Course Code</th>
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### Nat Sci & Tech - Life Sciences course.

Restricted to Liberal Arts & Sciences.

AE2 is reserved for students in the Access and Achievement Program. Please see an advisor in 2002 Lincoln Hall if you are in the LAS Access and Achievement Program. We can be reached via email at las-aap-help@illinois.edu. Any student in AE2 should be also in IB 150 AL2 and IB 199.

Restricted to EOAP Std Ath&Affil-LAS AAP, EOP - Obligatory, Pres Award Program Recip, President's Award Honors, or AAP - Undeclared students.

<table>
<thead>
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### Nat Sci & Tech - Life Sciences course.

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Nat Sci & Tech - Life Sciences course.

IB 150 WILL BE OFFERED ONLINE DURING SUMMER 2018.

Nat Sci & Tech - Life Sciences course.

Departmental Approval Required
Restricted to Liberal Arts & Sciences or Division of General Studies.
Restricted to students in merit or LAS AAP (LAS, EOP, PAP students) programs. Department approval required. Concurrent enrollment for 1hr credit in IB 199 is required. (See IB 199)
Restricted to EOAP Std Ath&Affil-LAS AAP, EOP - Obligatory, Pres Award Program Recip, President's Award Honors, or AAP - Undeclared students.
Must enroll concurrently in IB 199 41563.

IB 151  **Organismal & Evol Biol Lab**  credit: 1 hours.
Topics follow lecture topics in IB 150 and include labs in ecology, plant and animal function, and genetics and evolution. Designed for non-majors needing a year of biology with lab. Credit is not given for IB 151 for Integrative Biology or Molecular and Cellular Biology majors. Prerequisite: Credit or concurrent registration in IB 150.

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</table>
### IB 199  Undergraduate Open Seminar  
credit: 0 TO 5 hours.  
Approved for both letter and S/U grading. May be repeated to a maximum of 5 hours.

<table>
<thead>
<tr>
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<tr>
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</table>

Credit Hours: 1 hours  
This is the merit section in conjunction with IB 150.

### IB 203  Ecology  
credit: 4 hours.  
The links between evolution and ecology, population dynamics, community structure and function, and ecosystem function on local and global scales. Basic ecology needed to understand environmental problems and to conserve biodiversity. Investigations in both field and laboratory included. Prerequisite: IB 150 and MCB 150.  
This course satisfies the General Education Criteria for a: Advanced Composition

<table>
<thead>
<tr>
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<th>Type</th>
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<th>Location</th>
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Advanced Composition course.  
RESTRICTED TO STUDENTS ENROLLED IN BOTH IB 203 AND IB 204.

<table>
<thead>
<tr>
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Advanced Composition course.  
RESTRICTED TO STUDENTS ENROLLED IN BOTH IB 203 AND IB 204.

<table>
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</table>

Advanced Composition course.  
RESTRICTED TO STUDENTS ENROLLED IN BOTH IB 203 AND IB 204.
IB 204  **Genetics**  credit: 0 TO 4 hours.
The fundamentals of inheritance, with an emphasis on eukaryotes. Major topics include transmission genetics, quantitative genetics, cytogenetics, genomics, genetics of development and behavior, and population genetics. Laboratory emphasizes an experimental, inquiry-based approach to modern and classical genetics. Lecture only, 3 hours; with laboratory, 4 hours. Students must complete the laboratory portion of the course to receive 4 hours of credit. Prerequisite: IB 150 and MCB 150.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
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<td>Days</td>
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</tr>
</tbody>
</table>

Credit Hours: 4 hours INTENDED FOR IB MAJORS

Credit Hours: 3 hours Not intended for Integrative Biology major(s). LECTURE FOR IB NON MAJORS ONLY

**IB 220  Applied Entomology**  credit: 3 hours.
Same as CPSC 270 and NRES 270. See CPSC 270.
This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Life Sciences
IB 270  **Evolution of Molecules & Cells**  credit: 5 hours.
The major evolutionary transitions of biomolecules and cells including: energy acquisition and metabolism; information inheritance, system regulation, and genomes; the origin of life and of the prokaryotic cell, eukaryotic cell, and multicellularity. Lecture and laboratory. Credit is not given for both IB 270 and either MCB 250 or MCB 252. Prerequisite: Admission to the IB honors biology option; credit or concurrent registration in organic chemistry.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
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</table>

Course restricted to IB Honors only.

IB 290  **Introduction to Undergraduate Research in Integrative Biology**  credit: 2 hours.
An introduction to the practice of scientific research through hands-on experience and direct faculty interaction. Through weekly discussions, students are exposed to a variety of research topics, methods and careers in Integrative Biology and practice the steps involved in devising, planning, executing and presenting a scientific research project. Students are also assigned to a faculty advisor and work three hours a week on a laboratory and/or field research project.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
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<td>Paige, K</td>
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</table>

IB 292  **Translating Your IB Degree Into Career Success**  credit: 1 hours.
Explores what jobs and industries are available to Integrative Biology graduates, and what it takes to be successful on the job market. Experts will serve as resources, including biology alumni that have been in your shoes and are now professionals in a range of fields. The final project will be a real-life application of the course material, with every component meant to further your career goals. Approved for S/U grading only. Prerequisite: For students pursuing IB-related careers.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
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</table>
IB 299  **Undergraduate Special Course**  credit: 0 TO 5 hours.
Approved for letter and S/U grading. May be repeated in the same term; may be repeated in separate terms to a maximum of 6 hours.

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<th>CRN</th>
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Credit Hours: 1 hours
Departmental Approval Required
Registration restricted to students in Merit Workshop for IB 203.

<table>
<thead>
<tr>
<th>CRN</th>
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Credit Hours: 1 hours
Departmental Approval Required
Registration restricted to students in Merit Workshop IB 204.

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<thead>
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</table>

Credit Hours: 1 hours
Foundations in Scientific Research
The course is restricted to international students. Contact James Dalling dalling@illinois.edu.

IB 303  **Anatomy**  credit: 4 hours.
An overview of the body structure of vertebrate animals, with a special focus on mammals including humans. Body structure will be investigated from evolutionary, developmental, and human health perspectives through lectures, in-class activities, and required laboratory dissections. Through this course, students will develop a better understanding of anatomy vocabulary, the anatomical design of vertebrates, vertebrate development, and how vertebrate anatomy and development are related to each other, to organismal function, and to human health. Prerequisite: IB 150.

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<th>Days</th>
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<thead>
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<th>CRN</th>
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<th>CRN</th>
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IB 348  **Fish and Wildlife Ecology**  credit: 3 hours.
Same as NRES 348. See NRES 348.

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<th>CRN</th>
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To request being added to the waiting list for this course, complete the form at http://go.illinois.edu/NRESwaitinglist.

**IB 360  Evolution and Human Health  credit: 3 hours.**

Our health is inseparably tied to our evolutionary history. As a result, evolution is an important underpinning discipline for health professionals. This course first provides an overview of evolutionary processes, molecular evolution, human evolution, life history theory, and evolutionary-developmental biology. Second, it illustrates the application of these principles to our understanding of nutrition and metabolism, reproduction, disease and stress, and behavior. Third, it shows in practical terms how the principles of evolutionary medicine can be applied in medical practice and public health. Same as ANTH 360. Prerequisite: IB 302 or MCB 250 or MCB 244, or consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
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</table>

One online lecture must be completed at anytime during each week of class.

<table>
<thead>
<tr>
<th>CRN</th>
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</table>

One online lecture must be completed at anytime during each week of class.

**IB 362  Marine Biology  credit: 3 hours.**

Study of the major marine environments on earth, the huge diversity of organisms that live in them, and the ecological and functional reasons why these organisms live where they do. Also examines the impacts of human and their activities upon the sustainability of marine resources. Designed for students with some background in biology and evolution and interest in marine biodiversity, ecology, and conservation.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
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**IB 372  Ecology and Evolution  credit: 5 hours.**
Integrated study of ecology, population genetics, and evolution. Conceptual themes and techniques from the molecular, cellular, and organismal levels of biology will be integrated as well. Lecture, laboratory, and field work. Credit is not given for both IB 372 and either IB 203 or IB 302. Prerequisite: IB 271; good standing in the IB honors biology option.

<table>
<thead>
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<th>Type</th>
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</tr>
</tbody>
</table>

Course restricted to IB Honors only

**IB 390 Undergraduate Research Experience**  credit: 0 TO 5 hours.
Laboratory and/or field research and/or reading supervised by faculty members in the School of Integrative Biology. Approved for S/U grading only. May be repeated in separate terms up to 10 hours, if topics vary. Credit is not given for more than a combined maximum of 10 hours of IB 390 or IB 490 towards graduation for IB majors. Prerequisite: Consent of instructor.

<table>
<thead>
<tr>
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Undergraduate Research Exp

**IB 401 Introduction to Entomology**  credit: 3 OR 4 hours.
Integrated studies of the principal morphological, physiological, ecological and behavioral relationships among insects. Lecture and laboratory. 3 or 4 undergraduate hours. 3 or 4 graduate hours. An insect collection will be required for 4 hours credit. Prerequisite: IB 150; or consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
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</table>

**IB 411 Bioinspiration**  credit: 3 hours.
Focuses on how experts in biology and technological fields find inspiration in nature and use it as a model to make technological innovations and solve societal problems. In the future, our day-to-day living, health, and the environment will benefit from interdisciplinary teams using findings in basic biological research for technological innovation. Topics to be explored include human health, efficient architecture, cooperative control, robotics, swarm logic, and advanced biological materials. 3 undergraduate hours. 3 graduate hours.
This course focuses on how experts in biology and technological fields find inspiration in nature and use it as a model to make technological innovation and solve human problems. In the future, our day-to-day living, our health, and the environment will benefit from using a bio-inspirational approach. Topics to be explored include for instance, advanced materials, robotics, multimodal sensory integration for controlling behavior, and efficient architecture. The course is taught fully online in the Moodle course management system with no classroom meeting times. Although there are no scheduled meeting times, there are weekly assignments and project due dates. All assessments are conducted online. This is an 8-week course covering a full semester's worth of material so the pace will be accelerated.

**IB 421 Photosynthesis**  credit: 3 hours.

Comprehensive description of photosynthesis. Topics include: the photosynthetic membranes, light absorption, electron and proton transfer, photophosphorylation, water oxidation, RUBP carboxylase/oxygenase, photorespiration, whole plant photosynthesis, gas exchange and atmospheric interactions, and impacts of global environmental change. Same as BIOP 432 and CPSC 489. 3 undergraduate hours. 3 graduate hours. Prerequisite: IB 420, MCB 354, MCB 450, BIOP 401, or equivalent; or consent of instructor.

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**IB 426 Env and Evol Physl of Animals**  credit: 3 hours.

Physiological adaptations of invertebrate and vertebrate animals to diverse aquatic and terrestrial environments and the extreme habitats embodied therein. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 150; IB 202; CHEM 232; or consent of instructor.

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**IB 436 Evolutionary Neuroscience**  credit: 3 OR 4 hours.

Same as NEUR 433, PHIL 433 and PSYC 433. See PSYC 433.

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Credit Hours: 4 hours

Credit Hours: 3 hours

Restricted to students in the Psychology department.

Restricted to students with Senior class standing.

All seats reserved for Psychology majors until April 15th. Senior priority begins on April 3rd, and Junior priority begins April 10th.

**IB 450 Stream Ecology**  credit: 3 OR 4 hours.

Same as CEE 432. See CEE 432.
IB 452  **Ecosystem Ecology**  credit: 3 hours.
Distribution and structure of ecosystems on earth; integration of multiple disciplines to gain a holistic view of ecosystem function; ecosystem concepts as they apply to understand natural and anthropogenic environmental change. Offered in alternate years. Same as ESE 452 and NRES 462. 3 undergraduate hours. 3 graduate hours. Prerequisite: CHEM 102 and CHEM 104; or consent of instructor.

IB 462  **Mammalogy**  credit: 4 hours.
Classification, distribution, structure, function, life history, evolution and identification of mammals. Lecture/discussions, laboratory and field work. The laboratory includes vertebrate dissection. Same as NRES 442. 4 undergraduate hours. 4 graduate hours. Offered in alternate years. Prerequisite: IB 202 and IB 203; or consent of instructor.

IB 468  **Insect Classification and Evol**  credit: 4 hours.
Analytical survey of the classification and evolution of the orders and principal families of insects, with practical experience in the identification of insects at these taxonomic levels; field trips required. Lecture and laboratory. 4 undergraduate hours. 4 graduate hours. Offered in alternate years. Prerequisite: IB 401 or consent of instructor.
### IB 477 Genomics for Plant Improvement  
**credit**: 2 hours.  
Same as CPSC 466. See CPSC 466.

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This section is restricted to online programs only.

### IB 478 Advanced Plant Genetics  
**credit**: 3 hours.  
Same as CPSC 452. See CPSC 452.

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<th>CRN</th>
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### IB 482 Insect Pest Management  
**credit**: 3 hours.  
The principles underlying the control of important insect pests of agriculture and of human and animal health; emphasis on integrated pest management involving a systems approach which combines biological, cultural, and chemical suppressive factors into ecologically sound and socially and economically acceptable technology. Lecture and laboratory. Same as CPSC 479. 3 undergraduate hours. 3 graduate hours. Offered in alternate years. Prerequisite: IB 150 or equivalent; or consent of department.

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<td>MW</td>
<td>336 - Davenport Hall</td>
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### IB 490 Independent Study  
**credit**: 1 TO 5 hours.  
Laboratory and/or field research supervised by faculty members in the School of Integrative Biology. A written report is required. 1 to 5 undergraduate hours. No graduate credit. May be repeated. Credit is not given for more than a combined maximum of 10 hours of IB 390 or IB 490 towards graduation for IB majors. Prerequisite: Consent of instructor.

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### IB 491 Biological Modeling  
**credit**: 3 OR 4 hours.  
Same as ANSC 449, CPSC 448, and GEOG 468. See GEOG 468.
IB 494  **Theoretical Biology + Models**  credit: 4 hours.

Biologists are increasingly using mathematical and computer-based models to complement fieldwork and experimental data. These models provide a context in which to understand and answer existing questions, and also lead us to new questions and new insights. Students will encode biological mechanisms into mathematical models, develop the skills to find solutions to these models and relate them to biological data, and analyze and discuss relevant primary literature. Examples will be drawn largely from ecology and evolutionary biology. 4 undergraduate hours. 4 graduate hours. Prerequisite: MATH 220 or MATH 221; Introductory courses in Ecology and Evolution.

IB 513  **Disc in Plant Physiology**  credit: 1 hours.

Approved for letter and S/U grading. May be repeated.

IB 526  **Seminar in Entomology**  credit: 0 TO 1 hours.

Discussions, reviews, and appraisals of special topics in the field of entomology. Approved for both letter and S/U grading. May be repeated to a maximum of 4 hours.
Credit Hours: 1 hours
Departmental colloquium

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Credit Hours: 1 hours

IB 546  **Topics in Ecology & Evolution**  credit: 1 hours.
Speaker seminar series featuring discussion, review and critical analysis of general concepts and specific problems in ecology and evolution. Approved for both letter and S/U grading. May be repeated.

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<td>W</td>
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PEEC
Restricted to Graduate - Urbana-Champaign.
Topic: Topics in Ecology and Evolution. Seminar for students in the Program in Ecology and Evolutionary Biology. Seminars will be given by outside and local speakers in the areas of Ecology and Evolution. Offered for S/U grading only.

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<td>64637</td>
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<td>03:00 PM - 03:50 PM</td>
<td>W</td>
<td>2004 - Natural History Building</td>
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Graduate Seminar in Ecology
1 hour. Graduate Seminar in Ecology. Topic: Species Interactions. Species interactions are one of the key respects in which ecological systems are always more than the sum of their parts. In this seminar we'll discuss the role of species interactions from a variety of perspectives. What options do we have to model interactions mathematically, and when do we need to understand the details of species' behavior, traits and metabolism to adequately describe them? When and how can we infer the presence of species interactions (strength and type)? And how do the effects of interactions change with spatial and temporal scale? We'll take on some classic and recent literature on this topic, and I'll encourage participants to bring up their own questions and/or data related to the topic.

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Intro to Graduate Studies
Restricted to Graduate - Urbana-Champaign.
Topic: Introduction to Graduate Studies. Intended for incoming students in the Program in Ecology, Evolution, and Conservation Biology, and Departments of Animal Biology, Entomology, and Plant Biology. Others by special permission of the instructor. Offered for S/U grading only.

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IB 590  **Individual Topics**  credit: 2 TO 12 hours.
Individual topics in research conducted under the supervision of faculty members in the School of Integrative Biology. Designed for graduate students who would like to become more familiar with specialized fields of study prior to committing themselves to a specific area for their doctorate degree. Approved for S/U grading only. May be repeated to a maximum of 16 hours. Prerequisite: Consent of instructor.