

Syllabus: ENTM 10500, Spring 2019

Class Sessions:

Section 6: TR 10:30 - 11:45a

Section 5: TR Noon - 1:15p

Instructor: Professor Jonathan Neal

Office hours: Arranged Smith 127E

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Teaching Assistant: Eoghan McCroskey

Course Description

A one-semester course for non-science students who want to know more about insects, the most numerous organisms on earth. An introduction to insects and their relationship with humankind, including interesting aspects of insect biology; insects in music, decoration, history; use of insects in teaching at the elementary school level; their use in art, photography, and drawing; insects as human food.

Learning Objectives:

1. Describe the process of evolution and major events of the history of insects on earth.
2. Communicate scientific information in lay terms.
3. Describe insect classification and characteristics of insect groups.
4. Describe ecological roles of insects.
5. Develop informed policy positions.

Attendance:

Attendance is mandatory and monitored. You will be assigned to a team for the semester. Teams will work together on assignments and projects during class periods. Teams cannot function if members are absent. You will be required to sign in electronically during class. Up to 3 classes can be missed for any reason. Two percent of the team projects and assignment points will be deducted for each additional absence. If you are not in class, you are not helping your team and cannot expect to receive points for the work of others.

Assessment

The grading philosophy of this class is as follows:

- A: Submitted outstanding work in all metrics (knowledge, application and completeness)
 - B: Performance is above average, but with noticeable flaws.
 - C: Minimum requirements for the course were met
 - D: Some knowledge or some work completed, but did not meet minimum standards.
 - F: Student learned little to nothing or failed to complete work.
- +/- grades indicate borderline between categories.

The following activities are awarded points as follows:

Exams: 200 points (2 X 100 points)

Final Exam: 150 points

Assignments: 100 Points (10 @10 points each)

Reading Quizzes: 50 Points (only the top 10 scores count)

Projects: 200 Points (2 required)

Observations: 50 points

Total Points: 750 (See Blackboard for Due Dates)

The points earned reflect the level of achievement as follows:

A	714
A-	685
B+	657
B	636
B-	605
C+	585
C	560
C-	525
D	450
F	<450

Bonus Points:

Bonus points are awarded to encourage participation in learning activities outside class. Bonus points are not equivalent to required activity points. Bonus points will be offered by announcement.

Re-grading Policy Students may request items be reevaluated for a higher score. Requests must be in writing with a statement specifying why the assigned score was not appropriate. **No re-grading will be done until the final scores are summarized** and only if a higher score on the item(s) will improve the letter grade of the student.

Information About Class Activities

1. Readings

All readings will be posted on Blackboard or as links.

2. Projects: class projects are required. Each team project is worth points. More details will be given in class and on Blackboard.

3. Assignments: Assignments are “Take Home Questions” that may require reading, class participation and/or group discussion. Assignments must be submitted by the due date to receive full credit.

4. Tests: Three tests will cover information from readings, class presentations and discussions.

5. Reading Quizzes These are on Blackboard must be completed weekly by the due date. The top 10 scores count. Lower scores are dropped.

6. Observations: You will make guided observations of live arthropods and insects during class periods. Observations are made in response to prompts. Most observations will be done during activity periods.

7. Due Dates: All due dates are listed on Blackboard Learn

Class Schedule

The weekly class schedule is posted on Blackboard (May be subject to change.)

Week 1	History of Insects
Week 2	Growth/Metabolism/Nutrition
Week 3	Biodiversity/ Beetles
Week 4	Invasive Species/ Lepidoptera
Week 5	Wasps/ Biocontrol Exam 1
Week 6	Orientation Ants
Week 7	Bees and Beekeeping
Week 8	Diseases/ Flies, Fleas
Week 9	Insects as Food Exam 2
Week 10	Parasites/ Paraneoptera
Week 11	Cockroaches and Termites
Week 12	Aquatic Insects/ Environmental Indicators/ Polyneoptera
Week 13	Pest Management
Week 14	Digestion & Locomotion
Week 15	Taste Olfaction Vision

Final Exam: TBA

Policies

General Course Policies

1. **Questions and information:** The first choice for answering questions or getting information should be the syllabus or Blackboard. emails will be answered within 24 hours.
2. **Working in Teams:** Members should display respect courtesy, tolerance of different views and inclusiveness in discussions and decisions. Students are awarded points based on attitude, engagement and ability to work with others
3. **Use of cell phones/computers in class** is encouraged but only if it is course related. Multitasking is discouraged. Students disengaged from group work because of electronic distractions may receive poor group evaluations.
4. **Report technology issues** promptly so the issue can be quickly resolved.

The Provost has requested that I include the following information:

Academic Dishonesty

Abide by [Purdue's Honor Pledge](#). Purdue prohibits "dishonesty in connection with any University activity. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty." [Part 5, Section III-B-2-a, University Regulations] Furthermore, the University Senate has stipulated that "the commitment of acts of cheating, lying, and deceit in any of their diverse forms (such as the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest." [University Senate Document 72-18, December 15, 1972]

Attendance

Students are expected to be present for every meeting of the classes in which they are enrolled. Only the instructor can excuse a student from a course requirement or responsibility. When conflicts or absences can be anticipated, such as for many University sponsored activities and religious observations, the student should inform the instructor of the situation as far in advance as possible. For unanticipated or emergency absences when advance notification to an instructor is not possible, the student should contact the instructor as soon as possible by email, or by contacting the main office that offers the course. When the student is unable to make direct contact with the instructor and is unable to leave word with the instructor's department because of circumstances beyond the student's control, and in cases of bereavement, the student or the student's representative should contact the Office of the Dean of Students,

Grief Absence Policy for Students

Purdue University recognizes that a time of bereavement is very difficult for a student. The University therefore provides the following rights to students facing the loss of a family member through the Grief Absence Policy for Students (GAPS). GAPS Policy: Students will be excused for funeral leave and given the opportunity to earn equivalent credit and to demonstrate evidence of meeting the learning outcomes for misses assignments or assessments in the event of the death of a member of the student's family.

Missed or Late Work

All assignments must be submitted. Assignments submitted late will lose points if late work is a pattern. All online quizzes must be submitted by the due date or lose all points.

Counseling: CAPS Information: Purdue University is committed to advancing the mental health and well-being of its students. If you or someone you know is feeling overwhelmed, depressed, and/or in need of support, services are available. For help, such individuals should contact Counseling and Psychological Services (CAPS) at (765)494-6995 and <http://www.purdue.edu/caps/> during and after hours, on weekends and holidays, or through its counselors physically located in the Purdue University Student Health Center (PUSH) during business hours.

Violent Behavior Policy

Purdue University is committed to providing a safe and secure campus environment for members of the university community. Purdue strives to create an educational environment for students and a work environment for employees that promote educational and career goals. Violent Behavior impedes such goals. Therefore, Violent Behavior is prohibited in or on any University Facility or while participating in any university activity.

Students with Disabilities If you have a disability that requires special academic accommodation, please make an appointment to speak with me within the first week of the semester in order to discuss any adjustments. It is important that we talk about this at the beginning of the semester. It is the student's responsibility to notify the Disability Resource Center (<http://www.purdue.edu/drc>) of an impairment/condition that may require accommodations and/or classroom modifications.

Emergencies

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Relevant changes to this course will be posted onto the course website or can be obtained by contacting the instructors or TAs via email or phone. You are expected to read your @purdue.edu email on a frequent basis.

Nondiscrimination

Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, genetic information, marital status, parental status, sexual orientation, gender identity and expression, disability, or status as a veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in [Executive Memorandum No. D-1](#), which provides specific contractual rights and remedies. Any student who believes they have been discriminated against may visit www.purdue.edu/report-hate to submit a complaint to the Office of Institutional Equity. Information may be reported anonymously.

Emergencies

Fire Alarms: Leave the building calmly, orderly and immediately. The first student out the door should hold the door open or prop it open to allow everyone to leave as rapidly as possible.

Sirens: Shelter inside. For tornados, go to the basement.

EMERGENCY PREPAREDNESS LECTURE

1. Prior to the first day of class, obtain a copy of the building emergency plan for each building in which you will be teaching. Note the evacuation route and assembly area, as well as the shelter in place locations.

2. On the first day of class, the following information is required to be presented to students:

As we begin this semester I want to take a few minutes and discuss emergency preparedness. Purdue University is a very safe campus and there is a low probability that a serious incident will occur here at Purdue. However, just as we receive a "safety briefing" each time we get on an aircraft, we want to emphasize our emergency procedures for evacuation and shelter in place incidents. Our preparedness will be critical IF an unexpected event occurs! Emergency preparedness is your personal responsibility. Purdue University is actively preparing for natural disasters or human-caused incidents with the ultimate goal of maintaining a safe and secure campus. Let's review the following procedures:

- For any emergency call 911.

- There are nearly 300 Emergency Telephone Systems throughout campus that connect directly to the Purdue Police Department (PUPD). If you feel threatened or need help, push the button and you will be connected to the PUPD.

- If we hear a fire alarm we will immediately evacuate the building.

- ○ **Do not use the elevator.**

- Go over evacuation route...see specific Building Emergency Plan.

- If we are notified of a Shelter in Place requirement for a tornado warning we will shelter in the lowest level of this building away from windows and doors. Our preferred location is _____.

- If we are notified of a Shelter in Place requirement for a hazardous materials release we will shelter in our classroom shutting any open doors and windows.

- If we are notified of a Shelter in Place requirement for a civil disturbance such as a shooting we will shelter in a room that is securable preferably without windows.

EMERGENCY NOTIFICATION PROCEDURES are based on a simple concept – if you hear a fire alarm inside, proceed outside. If you hear a siren outside, proceed inside.

- **Indoor Fire Alarms** mean to stop class or research and immediately **evacuate** the building. ○ Proceed to your Emergency Assembly Area away from building doors. **Remain outside** until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave.

- **All Hazards Outdoor Emergency Warning Sirens** mean to immediately seek shelter (**Shelter in Place**) in a safe location within the closest building. ○ “Shelter in place” means seeking immediate shelter inside a building or University residence. This course of action may need to be taken during a tornado, a civil disturbance including a shooting or release of hazardous materials in the outside air. Once safely inside, find out more details about the emergency*. **Remain in place** until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave.

**In both cases, you should seek additional clarifying information by all means possible...Purdue Home page, email alert, TV, radio, etc...review the Purdue Emergency Warning Notification System multi-communication layers at http://www.purdue.edu/ehps/emergency_preparedness/warning-system.html*

EMERGENCY RESPONSE PROCEDURES:

- Review the **Emergency Procedures Guidelines** https://www.purdue.edu/emergency_preparedness/flipchart/index.html

- Review the **Building Emergency Plan** (available from the building deputy) for: ○ evacuation routes, exit points, and emergency assembly area
- when and how to evacuate the building.
- shelter in place procedures and locations
- additional building specific procedures and requirements.

EMERGENCY PREPAREDNESS AWARENESS VIDEOS

- "Shots Fired on Campus: When Lightning Strikes," is a 20-minute active shooter awareness video that illustrates what to look for and how to prepare and react to this type of incident. See: <http://www.purdue.edu/securePurdue/news/2010/emergency-preparedness-shots-fired-on-campus-video.cfm> (Link is also located on the EP website)

MORE INFORMATION

Reference the Emergency Preparedness web site for additional information:

http://www.purdue.edu/emergency_preparedness