

ENTMLGY 4440H: Honors Social Insects

Lecturer: Dr. Joseph M. Raczkowski

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Office hours by appointment

Lecture:

Kottman Hall 116

M, W, and F

1:50 PM – 2:45 PM

Course Materials:

CARMEN and **OSU** email are necessary to be an active participant in the course. You must activate your OSU email account to have access to CARMEN.

IMPORTANT: Dr. Raczkowski will only send email to your official OSU email account, not yahoo, gmail, or other accounts. The Carmen URL is <http://carmen.osu.edu> and Entomology 4440H should be listed under My Courses on your Carmen homepage. The username to logon is your OSU name.# and the password is the one you use with all OSU email and registration systems. If you have a problem logging in or using Carmen, contact 688-HELP or carmen@osu.edu. You should check your OSU email account regularly.

Grading:

Grading will be based on both factual content and conceptual connections. Grades will be composed of scores from **five quizzes** (20 points each, total of 100 pts), **two exams** (75 points each), a **final exam** (200), and two **essay assignments** (25 points each) related to course material. From this grand total of 500 points, grades will be calculated as shown below. Quizzes and exams will be composed of a mix of multiple choice and short answer questions. Grades will be calculated on the basis of the above sum using the following formula guidelines:

<u>Grade</u>	<u>%</u>
A	93-100
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
E	62 and below

Posting of Grades:

All grades will be posted on Carmen; you will have 10 working days to challenge any grade or inquire regarding any unposted grade; after that time, grades are final.

Attendance:

Attendance at all lectures is required.

Absences:

Missed exams must be made up within a week of the date they were originally given. If you must miss an exam for a university-sanctioned event, you must supply appropriate documentation no less than one week before the event. If you are too ill to take an exam, please contact Dr. Raczkowski, within 24 hours of the class period in which the exam was taken.

Academic Misconduct:

OSU has a strict code of academic misconduct that requires us to report any and all cases of suspected misconduct (e.g. cheating on an exam, plagiarism in written assignments, using an exam proxy, etc.) to the OSU Committee on Academic Misconduct for adjudication. We will adhere to this policy. Students are also expected to adhere to the code, and neither commit misconduct nor help others conceal it.

Accommodation of Special Needs:

Any students registered with the Office of Disability Services as needing accommodation should speak with Dr. Raczkowski regarding those needs. Please do this within the first two weeks of the quarter, and feel free to contact any of the course instructors either after class or during office hours. Please see the TA directly for authorization of ODS forms. Please fill out those parts of the proctor sheet forms that are to be completed by the student before bringing the form for signature. This will help us ensure that your individual needs will be met appropriately and fairly.

Sexual Harassment

OSU considers sexual harassment to be unacceptable behavior that destroys opportunities for learning. Please report any concerns about questionable or unwanted behavior to Dr. Raczkowski.

Goals and Objectives for the GEC Natural Science Category:

Courses in natural sciences foster an understanding of the principles, theories and methods of modern science, the relationship between science and technology, and the effects of science and technology on the environment.

Learning Objectives:

1. Students understand the basic facts, principles, theories and methods of modern science.
2. Students learn key events in the history of science.
3. Students provide examples of the inter-dependence of scientific and technological developments.
4. Students discuss social and philosophical implications of scientific discoveries and understand the potential of science and technology to address problems of the contemporary world.

Schedule

January 6	Lecture
January 8	Lecture
January 10	Lecture
January 13	Lecture
January 15	Lecture
January 17	Lecture, Quiz 1
January 20	No Classes
January 22	Lecture
January 24	Lecture
January 27	Lecture
January 29	Lecture
January 31	Lecture, Quiz 2
February 3	Lecture
February 5	Lecture
February 7	Lecture
February 10	Lecture
February 12	Lecture
February 14	Exam 1
February 17	Lecture
February 19	Lecture
February 21	Lecture
February 24	Lecture
February 26	Lecture
February 28	Lecture, Quiz 3
March 2	Lecture
March 4	Lecture
March 6	Lecture, Essay 1 due
March 9	Spring Break
March 11	Spring Break
March 13	Spring Break
March 16	Lecture
March 18	Lecture
March 20	Lecture, Quiz 4
March 23	Lecture
March 25	Lecture
March 27	Lecture

March 30	Lecture
April 1	Lecture
April 3	Lecture, Exam 2
April 6	Lecture
April 8	Lecture
April 10	Lecture, Essay 2 due
April 13	Lecture
April 15	Lecture
April 17	Lecture, Quiz 5
April 20	Lecture
April 28	Final Exam (4:00 – 5:45 PM)

Lecture Topics

Biology of Insects/Arthropods
Ant, Bee, Wasp, and Termite Societies
Evolution of Sociality
Perception, Learning, and Orientation
Organization of Labor
Caste Determination
Communication
Sex Ratio
Social Parasitism
Symbioses
Social Insect Pathogens
Social Insect Defense
Other Insect Societies
Honey Bee Dance Language