

Applied and General Entomology
 BSPM 302 MWF 9:00 - 9:50
 Lecture Schedule, 2007 (Revised Aug 19, 2007).

Note: Dates are approximate and are subject to change.

Date		Topic
20-Aug	M	Introduction / Applied and General Entomology Reading: Gullan and Cranston - Chapter 1, Insect Diversity pp. 1 - 20.
22-Aug	W	Evolution of Arthropods Reading: Gullan and Cranston - Chapter 8, Insect Biogeography and Evolution pp. 202 - 208.
24-Aug	F	Size and Physical Interactions with the Environment.
27-Aug	M	Insect Diversity - Dr. Boris Kondratieff.
29-Aug	W	Insect Diversity - Dr. Boris Kondratieff.
31-Aug	F	Insect Anatomy - Exoskeleton, Head Reading: Gullan and Cranston - Chapter 2 External Anatomy pp. 22 - 48.
3-Sep	M	Holiday - no class
5-Sep	W	External Anatomy - Thorax, Evolution of flight. Reading: Gullan and Cranston - Chapter 2, External Anatomy pp. 22 - 48, Chapter 8, 208-211.
7-Sep	F	External Anatomy - Abdomen Reading: Gullan and Cranston - Chapter 2, External Anatomy pp. 22 - 48, 208-211.
10-Sep	M	Exam 1
12-Sep	W	Digestion and Excretion Reading: Gullan and Cranston - Chapter 3, Internal Anatomy and Physiology.
14-Sep	F	Nervous and Sensory Systems Reading: Gullan and Cranston - Chapter 3, Internal Anatomy and Physiology 57 - 59, Chapter 4 Sensory Systems and Behavior.
17-Sep	M	Development and Molting Reading: Gullan and Cranston - Chapter 6, Development and Life Histories.
19-Sep	W	Reproduction, Life cycles Reading: Gullan and Cranston - Chapter 5, Reproduction.
21-Sep	F	Reproduction, Life cycles. Reading: Gullan and Cranston - Chapter 5, Reproduction.
24-Sep	M	Insect Behavior - Dr. Lou Bjostad.
26-Sep	W	Insect Behavior - Dr. Lou Bjostad.

28-Sep	F	Plant Insect Relationships Reading: Gullan and Cranston - Chapter 11, Insects and Plants.
1-Oct	M	Plant Insect Relationships Reading: Gullan and Cranston - Chapter 11, Insects and Plants. Gullan and Cranston Chapter 16 pp. 417 - 420.
3-Oct	W	Chemical Ecology - Dr. Lou Bjostad.
5-Oct	F	Exam 2
8-Oct	M	Predation and Parasitism Reading: Gullan and Cranston - Chapter 13, Insect Predation and Parasitism, pp. 328 - 342.
10-Oct	W	Medical and Veterinary Entomology Reading: Gullan and Cranston - Chapter 15, Medical and Veterinary Entomology.
12-Oct	F	Pest Management Reading: Gullan and Cranston - Chapter 16, Pest Management.
15-Oct	M	Pesticide Classes and Modes of Action - Dr. Whitney Cranshaw.
17-Oct	W	Pesticide Classes and Modes of Action - Dr. Whitney Cranshaw.
19-Oct	F	No Class
22-Oct	M	Biological Control Reading: Gullan and Cranston - Chapter 16, Pest Management.
24-Oct	W	Integrated Pest Management Reading: Gullan and Cranston - Chapter 16, Pest Management.
26-Oct	F	Disruption, Resurgence, & Resistance Reading: Gullan and Cranston - Chapter 16, Pest Management.
29-Oct	M	Exam 3
31-Oct	W	No Class
2-Nov	F	No Class
5-Nov	M	Cumulative Final Exam

References:

Course text:

Gullan, P.J and Cranston, P.S. 2005. The Insects: an Outline of Entomology. 3rd edition. Blackwell Science, Malden, MA.

BSPM 302 Applied and General Entomology

Fall, 2007
MWF 9:00 – 9:50, 2 Credits

Note - This class runs for 10 weeks, ending October 29th (with a 1 hour cumulative final on November 5th).

Instructor: Dr. Andrew Norton, C 030 Plant Sciences
Phone: 491-7421

Email: Andrew.Norton@colostate.edu

(Please don't use the WebCT email function – It makes it difficult to respond to you).

In this course you will learn the basics of entomology, spanning insect evolution and diversity, structure and function, interactions with humans and the environment and management strategies for problem species. The course is roughly divided into three themes: Insect diversity and natural history (1/3), insect structure and function (1/3) and insect pest management (1/3).

Note that there are two different lab courses available (optional but **strongly** recommended):

BSPM 303A – 2 credits, taught by Dr. Boris Kondratieff. This section emphasizes insect biology and diversity in natural systems, and you will learn to identify insects to Family level. This section meets Tu - Th 1:00 - 2:40.

BSPM 303B – 1 credit, taught by Dr. Whitney Cranshaw. This section emphasizes the biology of common pest and beneficial insects in horticultural systems. Identification is to the Order level. There are three sections of BI 303B: Th 8:00 - 9:40, Th 10:00 - 11:40 and Th 1:00 - 2:40.

While enrollment in a lab is optional, students usually find that the lab material reinforces the lecture material and vice versa. Both of these courses are independent of this course, and Boris or Whitney are responsible for course content and grading. Dr. Kondratieff and Dr. Cranshaw are both excellent teachers.

Note: The grade you receive in this course (BSPM 302) is separate from the grade you receive in the lab courses.

Cell Phones: Please turn them off during lecture. Answering calls, texting your friends or checking sports scores is distracting to me and to the rest of the class.

Questions During Class are always welcome. If something I've said or written isn't clear to you, or you need more explanation, it's a safe bet that this is also true for many other students. Don't be shy.

Office Hours: Drop-in or by appointment. Appointments are strongly recommended. I am often in my office, but a more reliable way of setting up a meeting time is to email me or talk to me after class. Calling my office works sometimes, but if I'm not there to answer I will get your email faster than I will a phone message. **Questions about the lectures, readings, course management etc. are always welcome, in class, by email, by office visit, or by stopping me on campus.** I will make every effort to meet with you or

respond to your questions in as timely a manner as possible. However, I have found that the days prior to each exam the number of students who would like to meet with me exceeds the number of hours in the day. Please plan accordingly.

Contacting you: Please make sure you have your correct email address on file with the University. At times I will email the class as a whole (for example when exam scores are posted), or I may need to contact one of you individually (such as in response to your request for a meeting with me). This is much easier if the University has your email address. (You can set your email address by going to RamPoint (<http://www.rampoint.colostate.edu>) and then clicking on "my account").

Readings. Gullan and Cranston (3rd edition) is a required text and is available in the bookstore and at Amazon or other online book sellers. This text supplements the lectures and provides more depth than what I will have time to cover in the lecture.

Note: the 2nd edition of this book is available online and is sufficient for this course. It is also quite a bit less expensive. As of August 15th, Amazon listed 27 used copies of this text, for prices ranging from \$14.39 to \$77.95. There are a few differences between the 2nd and 3rd editions, but these differences are not material to this course.

Lecture handouts will be available in class and also will be on RamCT soon after each lecture. These handouts contain key words and concepts and sometimes figures useful for the lectures. They do not contain the lecture material, and reading the lecture handout will **NOT** give you the information I present in lecture. This is intentional. The process of listening to a lecture, taking notes and then transcribing them is one of the most efficient methods of learning new material.

In the past a few students have had trouble getting their browser and RamCT to cooperate with .pdf files. This is apparently not a problem with the current versions of Netscape, Internet Explorer and Acrobat, but **PLEASE** let me know if you have any trouble accessing course material on RamCT and I will get you copies of the documents you need. RamCT is supposed to make our lives easier, not get in the way of getting you the information you need. This fall, the University has implemented a new "improved" version of WebCT (now RamCT). This new software should improve the reliability and flexibility of web content delivery and make all of our lives better. As of the week before classes start this new software is having problems with a number of basic tasks, and I hope that by the time you read this all these issues will have been resolved. **If you have trouble getting course material, your exam scores, or anything else, please let me know.** While I cannot test every browser / operating system / computer manufacturer combination for compatibility (much less change RamCT to make it work for you), I can give you the information you need in other old-school ways.

Grading:

		Letter Grade	Percentage	Total Points
Midterm 1	100*	A+	≥97	≥291
Midterm 2	100*	A	≥93	≥279
Midterm 3	100*	A-	≥90	≥270
<u>Cumulative Final</u>	<u>100*</u>	B+	≥87	≥261
Total	300	B	≥83	≥249
		B-	≥80	≥240
*Low Score dropped		C+	≥77	≥231
		C	≥73	≥219
		C-	≥70	≥210
		D+	≥67	≥201
		D	≥63	≥189
		D-	≥60	≥180
		NP	<60	<180

Exams will be a combination of multiple-choice and fill in the blank type questions and short answer or a labeled drawing. The material on the exams will emphasize what I have presented in lecture and the terms or concepts on the handouts. Material from the readings is fair game for the tests, but if I haven't presented it in lecture it is a safe bet that it won't appear on the exams. Copies of last year's exams will be posted online as study aids.

Exams will be returned to you as soon as they have been graded and entered into RamCT. This usually takes about a week. University policy only allows me to return exams directly to you - I cannot leave exams in a box or folder for all of you to sort through. This means that you must come to my office to pick up your exam so I may place it directly into your hands. I provide this service anytime.

These tests are closed book, and you may not use notes, calculators, cell phones, iPods, computers or your neighbor's exam for assistance. A summary of the University's Academic Integrity Policy may be found here:

<http://facultycouncil.colostate.edu/files/manual/sectioni.htm#1.7.2>

Cheating on exams demoralizes everyone in the class, and will not be tolerated. The **minimum** penalty for cheating in this class is a zero for that exam, and this score will count as one of your 3 exams for your final grade. Students caught cheating on exams will be reported to the Office of Conflict Resolution and Student Conduct Services. **The University has recently changed its academic dishonesty policy. Repeated violations or major infractions may result in a hearing and a permanent notation on your transcript that you were found guilty of academic dishonesty. This change in policy was made at the request of the ASCSU.**

Make-ups for exams are **NOT** possible without prior arrangement AND a letter from your physician or a letter from your instructor (for CSU field trips). **After-the-fact excuses are not acceptable.** In general, I will try to accommodate illnesses, family crises, etc, but **you must let me know beforehand.** In past years students have attempted to abuse this policy, but in fairness to all students there will be no exceptions this year. **Note:** You are allowed to drop one exam from your grade calculation, and if you miss a test you are allowed to use this exam as the one you drop. **Note also:** Missing an exam because of a vacation, lack of studying, etc. is a bad idea. Each year I have students who

do this, and each year these students regret it. **It is always in your best interest to take the exams.**

“Extra Credit” Assignments: I will not offer extra credit assignments to the class or to you as an individual. Don’t ask. It won’t happen.

Grading Appeals.

1) Addition / data entry errors on my part: If I did not enter your score correctly into RamCT or if I did not correctly add up the points please see me (with your exam) within two weeks of my making them available to you (**not** two weeks from when you picked it up).

2) Appeals for additional points / partial credit / etc. **must be in writing** and **must** be delivered to me, with your exam, within two weeks of my making the graded exam available to you. **No exceptions.** Your written appeal must describe why you believe you should have received more points than you were given. I will notify you of my decision within one week of having received your written appeal. This decision is final.