ENTM 49300 - Entomology Capstone Element II

Course Information
ENTM 493 – Entomology Capstone Element II
1-3 credits (variable) (every Spring and Fall semester)

Instructor
Arranged (Capstone Mentor or Drs. Richmond or Mason)

Summary
This course is an experiential meant to provide students with an avenue for fulfilling their capstone requirement. Students may use a research, outreach, study abroad, internship experience or some combination thereof to meet this requirement. Although the capstone project may build on or extend a previously conducted undergraduate research project, independent study, or study abroad, students enrolled in ENTM 49300 must conduct their capstone project in a manner that is independent from, or in addition to any other project for which credit will be awarded or for which they will be paid as an employee. While the capstone project may be conducted at any time during the last 2 years of the students tenure as an undergraduate, enrollment in ENTM 493 is only necessary during the semester in which the student intends to complete their written summary and present their findings at the capstone forum.

Prerequisites
ENTM 49200 (Capstone Element I)

Course Objectives
In completing this course, students will demonstrate their ability to integrate their accumulated knowledge and technical and social skills in order to identify and solve a problem relevant to Entomology, and communicate the results of their efforts to their peers through two avenues --- an oral presentation and a written report or scientific poster.

Evaluation of Learning
The capstone mentor will assign the final capstone grade. However, in cases where the capstone mentor is not a member of the Purdue Department of Entomology Faculty, Drs. Richmond (C6365) or Mason (C3684) will assign the final grade in consultation with the capstone mentor. When registering for this class it is essential that the proper course registration number (CRN#) be used so that the correct faculty member is designated for final grade assignment. Evaluation will be based on:

1. The quality and organization of the oral presentation to the Department (See COA oral communication rubric on the ENTM 49300 course website). The presentations may be recorded for evaluation purposes.
2. The quality and organization of the written report (poster or project summary) to be submitted to, and approved by, the student’s capstone mentor. For guidance on putting together your written summary, see the COA written communication rubric and previous summaries posted at the following website: https://ag.purdue.edu/entm/Pages/capstone-
After the mentor has evaluated and approved the written summary, the student must upload the capstone summary or poster using the upload function on this website. If the student encounters difficulties uploading their summary, they may email it to Dr. Richmond (drichmond@purdue.edu) no later than the last day of finals week that semester. Summaries and posters will be posted for viewing on this website.

3. The student’s understanding of the work and its implications for the science of Entomology
4. The student’s level of commitment to the project.

**Grading**

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<th>Criteria</th>
<th>Points</th>
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<td>Quality and organization of the oral presentation</td>
<td>100 pts</td>
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<tr>
<td>Quality and organization of the written report or poster</td>
<td>100 pts</td>
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<tr>
<td>Student understanding of the work and its implications</td>
<td>100 pts</td>
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<tr>
<td>Commitment to the project</td>
<td>100 pts</td>
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Consult with your capstone mentor (or Drs. Richmond or Mason when applicable) to determine what grading scale (A-F) will be used.

**Project Types**

**Research Capstone:** The student will conduct a research experiment, which includes all the elements of the scientific method (hypothesis, experimentation, results and conclusions). The student should include in the presentation, an overview and significance of the problem, approach, findings and conclusions.

**Outreach Capstone:** The student will conduct an outreach project relevant to some aspect of entomology. A project may consist of, but is not expressly limited to any of the following: a survey of attitudes or opinions related to some aspect of entomology, an extension publication, or educational tools and materials (website, training or teaching tools, collections, or materials aimed at raising awareness and appreciation of entomology in the general public or classroom). In the presentation, the student should include an overview of the clientele (target audience), the need for this type of program/material and assessment of the impact of the project.

**Internship:** Student will participate in an examination of the entomological issues associated with some aspect of the food, agricultural, or pest management industry. For example, a student might intern at a seed company and study entomological issues the industry is addressing, how they are approaching the problems (plant breeding, molecular, traditional plant resistance), and future directions (such as GMO). The student presentation which would include an overview of the issue the industry is addressing, the approaches that are being employed and progress that is being made.

**Study Abroad:** While abroad, the student will conduct a research, outreach, internship or review of some aspect of entomology unique to that area/region. If the student selects the research, outreach or internship project, the general guidelines listed above will pertain. If the student chooses the review project, it should demonstrate that the student has acquired a greater appreciation for an entomological issue facing that country/region, or provide novel insight gained through the study abroad experience. The student presentation should include an overview of the problem/system, popular approaches to solving the problem, and comparison to the U.S. system when applicable.
Role of the capstone mentor

The mentor will provide day-to-day advice, support and guidance and will periodically review student progress. The mentor will assist the student in selecting a project, developing a project outline, conducting the project and organizing and presenting materials. The mentor will also be responsible for assigning the final capstone grade, unless the mentor is not a member of the Purdue Department of Entomology Faculty (primarily study abroad and internship options). In such instances, the mentor will provide consultation to Drs. Richmond or Mason, who will then assign the final grade. Again, the student must enroll in ENTM 49300 under the faculty identifier for the capstone mentor, or in cases where the mentor is not a member of the Purdue Department of Entomology Faculty, the faculty identifier for Drs. Richmond (C6365) or Mason (C3684) must be used. The faculty mentor is also responsible for completing the oral and written communication rubrics based on their evaluation of the students’ oral presentation and written summary, respectively. After completion, the rubrics should be provided to the capstone program director (Dr. Richmond). The specific timeline and important deadlines for participation in the capstone forum are updated at the beginning of each semester and can be found at the following location:
https://ag.purdue.edu/entm/Pages/capstone-information.aspx

Scheduling the Capstone Presentation and Completing the Written Summary

An oral presentation of the capstone project is required from every student enrolled in Entomology Capstone Element II. A date (or two) will be specified during the 14th week of each Spring and Fall semester, and all students wishing to make their oral presentation will be required to participate in this pre-scheduled Capstone Forum. A final schedule for the capstone forum will be posted on Departmental website during the 12th week of every Spring and Fall semester. Capstone presentations should be limited to 12 minutes with an additional 3 minutes for questions. Questions concerning the capstone requirements should be directed to:

Dr. Doug Richmond  
Assistant Professor  
Department of Entomology  
105C SMTH  
Ph: 494-0399  
Email: drichmond@purdue.edu

Dr. Linda Mason  
Professor  
Department of Entomology  
105B SMTH  
Ph: 494-4586  
Email: lmason@purdue.edu

If you require special technical assistance with AV or computer equipment for your presentation, please contact AgIT. The capstone forum will be set-up with a computer and LCD projector by default.

AgIT  
Ph: 4-8333  
Email: AgITHelp@purdue.edu
Required Text and Reference Materials
There is no required textbook for this course.

Classroom Policies
Academic Honesty
“To foster a climate of trust and high standards of academic achievement, Purdue University is committed to cultivating academic integrity and expects students to exhibit the highest standards of honor in their scholastic endeavors. Academic integrity is essential to the success of Purdue University’s mission. As members of the academic community, our foremost interest is toward achieving noble educational goals and our foremost responsibility is to ensure that academic honesty prevails.” (Purdue University Regulations, Part 5, Section II). In compliance with this policy, any instance of plagiarism, cheating, dishonesty, or the facilitation thereof will result in a grade of 0 for the assignment. If a second instance occurs, the student will be reported to the Dean of Students.

Students with Disabilities
“Students with disabilities are expected to meet the same academic standards as all students in their respective programs. In some cases, however, it is necessary that they receive academic adjustments to make the educational opportunity more accessible. Academic adjustments may include, but are not limited to, alternative testing methods, copies of instructor notes, enlarged handouts, distraction-limited testing, extra time for exams, no in-class spelling penalty, note-taker in class, readers, in-class sign language interpreter, permission to tape record lectures, etc. To receive academic adjustments, a student must register with and provide documentation of his or her disabling condition to the Adaptive Programs staff of the Office of the Dean of Students.” (Purdue University Policies and Procedures, on-line handbook)