Texas A&M University-Corpus Christi  
College of Science & Engineering  
Life Sciences Department

BIMS 5333.001 – Public Health Entomology  
Spring 2012

COURSE: BIOL 5333.001 Public Health Entomology  
LECTURE: 9:00-9:50am MWF  
ROOM: ST107

INSTRUCTOR: Dr. Bart Cook III  
EMAIL: bart.cook@tamucc.edu  
OFFICE: ST309  
PHONE: 825-2683  
OFFICE HOURS: 7:00 A.M. – 8:00 a.m. MWF  
10:00 a.m. – 11:00 a.m. F  
Or by appointment – please sign up posted on office door

TEXTBOOK: Medical and Veterinary Entomology. 1st edition, 2002 or latest.  

COURSE DESCRIPTION:  
BIOL 5333.001 – Public Health Entomology focuses upon the critical roles that arthropods of medical and veterinary importance play in regards to the host group’s health.

GOALS AND OBJECTIVES:  
By successfully completing the requirements of this course, the student will:

a) Understand the variety of roles that arthropods play in regards to medical/veterinary health;
b) Understand the various areas of study within medical entomology
c) Have learned specific facts regarding the natural history, morphology, physiology, and behavior of medically important arthropods;
d) Have learned about current disease issues such as St. Louis encephalitis and West Nile viruses in the United States through lecture information and by student literature reviews as out of class assignments.
e) Have learned about current disease issues on an international scale such as malaria, plague, yellow fever, dengue fever, typhus, and various arboviruses;
f) Understand past, current and projected strategies for controlling arthropods of medical/veterinary importance;  
g) Understand the role of certain arthropods as employed in forensic applications;  
h) Develop leadership skills as a project team leader;  
i) Successfully design an entomological based research proposal based upon the Sigma Xi model.

**COURSE GRADING:**  
The course goals will be based on the student’s performance in four areas:

a) 1 semester take-home exam (graduate level) - 200 pts  
b) Graduate Presentations - 200 pts  
c) Entomology based research proposal - 100 pts  
d) Participation and attendance - 100 pts  

**Total**  
600 possible total points

A. **Take-Home Exam:** This test will be assigned April 11th and will be due and handed in at the April 25th class meeting. It will be of an open book format with all responses to the question being the sole work and endeavor of each student. (200 pts)

B. **Graduate Presentation:** The student will make an oral presentation of 35-40 minutes (35 min absolute minimum time) supported by visual aids of which is focused on some aspect of medical or forensic entomology. (200 pts)

C. Each graduate student enrolled in BIOL 5333 will successfully complete a basic entomology based research proposal on the single page Sigma Xi model.

D. **Participation and Attendance:** Ten points will be awarded at each random check on attendance during the semester for a total of 100 possible points. (ca 100 pts).

**Grading system**  
A=90 – 100%  
B=80 - 90%  
C=70 - 80%  
D=60 - 70%  
F= 0 - 60%
At the discretion of the instructor, curve points may be added to the student’s final overall class average. If curve points are given, each and every student will receive the same number of points. No extra credit work is permitted.

Student work: Each student is required to do independent work on each of the lecture and lab exams.

Plagiarism will result in failure of the course (F) and possible disciplinary action by the college and university.

Assignments handed in after the due date will be subject to penalty points deducted from the assignment grade.
NOTE: The official deadline for dropping any course during the 2012 Spring Semester is March 30, 2012.

IMPORTANT NOTICE!
Every student is urged to keep abreast of any and all opportunities about scholarships, internship, and research opportunities.

To subscribe to this information list serve:

1. Send an email message to:  
   [opportunities-list-request@sci.tamucc.edu]

2. In the subject field above, type: Subscribe
## Tentative Class Schedule for BIMS 5333 Public Health Entomology
### Spring 2012

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Pages</th>
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<tbody>
<tr>
<td>1</td>
<td>Jan 18 &amp; 20</td>
<td>Course Introduction</td>
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<tr>
<td>2</td>
<td>Jan 23-27</td>
<td>Lecture, Chapter 1, 2 Intro to Med. Ent. &amp; Epidemiology of Vector Borne Diseases</td>
<td>2 - 28</td>
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<tr>
<td>3</td>
<td>Jan 30- Feb 03</td>
<td>Lecture, Ch 3,4,5 Cockroaches, Lice, True Bugs</td>
<td>29-86</td>
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<td>4</td>
<td>Feb. 06-10</td>
<td>Lecture, Ch. 6,7 Beetles, Fleas</td>
<td>87-128</td>
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<tr>
<td>5</td>
<td>Feb. 12-17</td>
<td>Lecture, Ch. 8,9,10, 11 Flies</td>
<td>129-200</td>
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<tr>
<td>6</td>
<td>Feb. 20-24</td>
<td>Lecture, Ch. 12,13,14,15,16 Flies</td>
<td>204-348</td>
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<tr>
<td>7</td>
<td>Feb. 27-Mar 02</td>
<td>Lecture, Ch. 17,18,19 Louse flies, keds, Related flies, moth, butterflies, ants, wasps, bees</td>
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<tr>
<td>8</td>
<td>Mar. 05-09</td>
<td>Lecture, Ch 20,21,22 Scorpions, Solpugids spiders</td>
<td>411 – 448</td>
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<tr>
<td>9</td>
<td>Mar 12-16</td>
<td>SPRING BREAK No Class</td>
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<tr>
<td>10</td>
<td>Mar. 19-23</td>
<td>Lecture, Ch. 23, 24 Mites and Ticks</td>
<td>449-558</td>
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<tr>
<td>11</td>
<td>Mar 26-April 01</td>
<td>Presentations</td>
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<td>12</td>
<td>April 02-06</td>
<td>Presentations</td>
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<td>13</td>
<td>April 09-13</td>
<td>Presentations Take home exams assigned</td>
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<td>14</td>
<td>April 16-20</td>
<td>Presentations</td>
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<td>15</td>
<td>April 23-27</td>
<td>Presentations Take home exams due April 25</td>
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<tr>
<td>16</td>
<td>April 30</td>
<td>Presentations</td>
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Disability and Veterans’ Services: Texas A&M University-Corpus Christi is committed to providing persons with disabilities an equal opportunity to access campus facilities, resources and programs. The American with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. Support and accommodations are also available for returning veterans who experience cognitive and/or physical access issues in the classroom or on campus. Our Office of Disability Services arranges such support and academic accommodations. To make a request, or for more information, call (361) 825-5816 or visit Driftwood 101. It is important to contact the Office of Disability Services in a timely fashion as it will take time for them to review requests and prepare accommodations and accommodation letters.

Grade Appeals: As stated in the Texas A&M University-Corpus Christi University Rules and Procedures (Section B [Academic Program], Part 13 [Students]: 13.02.99.C2 [Student Grade Appeals] and 13.02.99C2.01 [Student Grade Appeal Procedures]), a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is on the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, consult the University Rules and Procedures specified above (accessible through the University Rules and Procedures website at http://www.tamucc.edu/provost/university_rules/index.html). For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

Academic Advising: The College of Science and Technology requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. The College’s Academic Advising Center is located in Center for Instruction 350, and can be reached at 825-6094.