COURSE: BIOL 5533.001 Public Health Entomology
Lecture: T 7:00-9:30pm CS 111

FACULTY: Instructor: Dr. Bart Cook III
Office: ST309
Phone: 825-2683
Email: Bart.Cook@tamucc.edu
Office Hours: 7:00-8:00am MWF
9:00-10:00am F
Or by appointment - please sign up posted on office door

COURSE DESCRIPTION:
BIOL 5533.001 – Public Health Entomology focuses upon the critical roles that arthropods of medical and veterinary importance play in regards to the host group's health.

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

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 project presentation -200 pts  
c) Entomology based research proposal -100 pts  
d) Participation and attendance -100 pts  

Total 600 pts

A. **Take-Home Exam:** This test will be assigned April 15th and will be due and handed in at the April 29th 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. **Project Presentation:** The student will make an oral presentation of 40-45 minutes (40 min absolute minimum time) supported by visual aids 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. (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.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 22</td>
<td>Course Introduction</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Jan 29</td>
<td>Lecture, Chapter 1,2 Intro to Med. Ent &amp; Epidemiology of Vector Borne Diseases</td>
<td>2-28</td>
</tr>
<tr>
<td>3</td>
<td>Feb 5</td>
<td>Lecture, Ch. 3,4,5 Cockroaches, Lice, True Bugs</td>
<td>29-86</td>
</tr>
<tr>
<td>4</td>
<td>Feb 12</td>
<td>Lecture, Ch. 6,7 Beetles, Fleas</td>
<td>87-128</td>
</tr>
<tr>
<td>5</td>
<td>Feb 19</td>
<td>Lecture, Ch. 8,9,10,11 Flies</td>
<td>129-200</td>
</tr>
<tr>
<td>6</td>
<td>Feb 26</td>
<td>Lecture, Ch. 12,13,14,15,16 Flies</td>
<td>204-348</td>
</tr>
<tr>
<td>7</td>
<td>Mar 4</td>
<td>Lecture Ch. 17,18,19 Louse flies, keds Related flies, moths, butterflies, ants, wasps, bees</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Mar 11</td>
<td>Lecture, Ch, 20, 21, 22 Scorpions, Solpugids Spiders</td>
<td>411-448</td>
</tr>
<tr>
<td>9</td>
<td>Mar 18</td>
<td>SPRING BREAK</td>
<td>No Class</td>
</tr>
<tr>
<td>10</td>
<td>Mar 25</td>
<td>Lecture, Ch 23,24 Mites and Ticks</td>
<td>449-558</td>
</tr>
<tr>
<td>11</td>
<td>Apr 1</td>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Apr 8</td>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Apr 15</td>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Apr 22</td>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Apr 29</td>
<td>Presentations Specimens collections due. Take home exams due</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>May 6</td>
<td>Presentations</td>
<td></td>
</tr>
</tbody>
</table>
Assignments handed in after due date will be subject to penalty points deducted from the assignment grade.

**NOTE:** The official deadline for dropping any course during the 2008 Spring Semester is April 4, 2008.

**IMPORTANT NOTICE!**

Every student is urged to keep abreast of any and all opportunities about scholarships, internships, 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