Texas A&M University-Corpus Christi
College of Science and Engineering
Life Sciences Department
BIMS 4333 Medical Entomology
Spring 2014

Course: BIMS 4333.001 Medical Entomology
Lecture: MWF 9:00-9:50 a.m.
Room: CS 101
Semester: Spring 2014

INSTRUCTOR: Bart Cook III
EMAIL: bart.cook@tamucc.edu
OFFICE: EN 309
PHONE: 361-825-2683
OFFICE HOURS: 7:00-8:00 a.m. MWF
10:00 a.m. – 11:00 a.m. F
Or by appointment- please see sign up posted on my office door

TEXTBOOK: Medical and Veterinary Entomology, 1st Edition 2002 or latest Mullen, Gary and Duren, Lane, Academic Press, New York

COURSE DESCRIPTION:
Medical 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 students’ 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 and current project strategies for controlling arthropods of medical/veterinary importance.

g) Understand the role of certain arthropods as employed in forensic applications.

h) Development in leadership skills as a project team leader.

COURSE GRADING:

The course grade will be based on the student’s performance in four areas:

a) 1 semester take-home exam 200pts

b) Team project presentations 200pts

c) Participation and attendance 100pts

500 possible total points

A) Take-Home Exam: This test will be assigned April 14th and will be due and handed in at the April 28th 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) Team Project Presentation: A team comprised of no fewer than two (2) persons 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) Participation and Attendance: Ten points will be awarded at each random check on attendance during the semester for a total of approximately 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 students’ 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.

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 for the assignment grade.

**NOTE:** The official deadline for dropping any course during the Spring 2014 semester is April 11, 2014.

**Important Notice!**

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

**To Subscribe to the information list:**

1) Send an email message to opportunities-list-request@sci.tamucc.edu

2) In the subject field of the message type: **Subscribe**
## Tentative Class Schedule for
### BIMS 4333- Medical Entomology
#### Spring 2014

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Chapters</th>
<th>Topic</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 22-24</td>
<td>Lecture, ch. 1,2</td>
<td>Intro to Med. Ent &amp; Epidemiology of Vector Bone Diseases</td>
<td>2-28</td>
</tr>
<tr>
<td>2</td>
<td>Jan 27-31</td>
<td>Lecture, ch. 3,4,5</td>
<td>Cockroaches, Lice, True Bugs</td>
<td>29-86</td>
</tr>
<tr>
<td>3</td>
<td>Feb 03-07</td>
<td>Lecture, ch. 6,7</td>
<td>Beetles, Fleas</td>
<td>87-128</td>
</tr>
<tr>
<td>4</td>
<td>Feb 10-14</td>
<td>Lecture, ch. 8,9,10,11</td>
<td>Flies</td>
<td>129-200</td>
</tr>
<tr>
<td>5</td>
<td>Feb 17-21</td>
<td>Lecture, ch. 12,13,14,15,16</td>
<td>Flies</td>
<td>204-348</td>
</tr>
<tr>
<td>6</td>
<td>Feb 24-28</td>
<td>Lecture, ch. 17,18,19</td>
<td>Louse flies, Keds, Related flies, moths, butterflies, ants, wasps, bees</td>
<td>339-396</td>
</tr>
<tr>
<td>7</td>
<td>Mar 03-07</td>
<td>Lecture, ch. 20,21,22</td>
<td>Scorpions, Solpugids Spiders</td>
<td>411-448</td>
</tr>
<tr>
<td>8</td>
<td>Mar 10-14</td>
<td>SPRING BREAK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Mar 17-21</td>
<td>Lecture, ch. 23-24</td>
<td>Mites and Ticks</td>
<td>449-558</td>
</tr>
<tr>
<td>10</td>
<td>Mar 24-28</td>
<td>Presentations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Mar 31-Apr 04</td>
<td>Presentations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>APR 07-11</td>
<td>Presentations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Apr 14-18</td>
<td>Presentations</td>
<td>Assigned Take Home Exam. Apr 14</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Apr 21-Apr 25</td>
<td>Presentations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Apr 28-May 02</td>
<td>Presentations</td>
<td>Take Home Exams Due- Apr 28</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>May 05-06</td>
<td>Presentations</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Disability and Veteran’s 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 Americans 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 accommodation 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
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 on the process, including the responsibilities of the parties involved in the process, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, consult Texas A&M University-Corpus Christi University Procedure 13.02.99.C2.01 Student Grade Appeal Procedures (http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage (http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school or the College of Science and Engineering Dean’s Office.

Academic Advising: The College of Science and Engineering 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 the Center for Instruction Room 350, and can be reached at 361-825-60