A. COURSE INFORMATION

Course number/section: BIOL 3413.001; BIOL 3413.101, 3413.102, 3413.103 (lab)
Class meeting time: Lecture – MWF 8-8:50 am; Lab – M 1-3:50; W 9-11:50, R 2-4:50
Class location: Lecture – EN 106; Lab – CS 235
Course website: currently unavailable

B. INSTRUCTOR INFORMATION

Instructor: Kim Withers
Office location: NRC 3205
Office Hours: 10-12 MW, 11-1 T
Telephone: 825-5907
Email: Kim.Withers@tamucc.edu
Appointments: Call to set up an appointment outside of office hours

C. COURSE DESCRIPTION

Catalog Course Description
Structure, life history, and evolution of the invertebrates with special emphasis on the phylogeny and ecological relationships of the major phyla. Laboratory will involve field trips and survey collections. Prerequisite BIOL 1407. SMTE 0091 is a co-requisite for this course. Documented completion of this safety training is required early in the semester for continued participation in this course. Safety training given during a laboratory meeting early in the semester is required for continued participation in the course.

Extended Course Description
Students in this course will investigate the systematics and natural history of the invertebrates. Understanding biological nomenclature and the role of Greek and Latin prefixes, suffixes, and roots will be emphasized. The lab includes comparing and contrasting the structure of the various invertebrate phyla to better understand their evolutionary relationships.

D. PREREQUISITES AND CO-REQUISITES

Prerequisites
BIOL 1407 Biology II

Corequisite
SMTE 0091 Biological Laboratory Safety Seminar

E. REQUIRED TEXTBOOKS, READINGS, & SUPPLIES

Required Textbooks


Other Required References

Laboratory Course Packet will be supplied via Blackboard

Additional readings from the primary literature and other sources will be assigned throughout the semester.

Required Supplies

Lab Coat
Three-ring binder for laboratory notebook

**Recommended Textbooks**


**F. STUDENT LEARNING OUTCOMES AND ASSESSMENT**

Students in this course will become familiar with the structure and function, life history, and biodiversity of the invertebrates. The lab will focus on comparative anatomy of the invertebrate phyla, with an emphasis on function and taxonomy of the local forms.

By the end of this course, students should be able to:

1. DEMONSTRATE knowledge of relationships among and between the invertebrate phyla with regard to their evolution, anatomy and physiology, taxonomy, and ecology
2. UNDERSTAND the system of biological nomenclature as it relates to the invertebrates and DEMONSTRATE knowledge of the role of Greek and Latin word roots and combining forms in biological nomenclature
3. UNDERSTAND how invertebrate anatomy and physiology affect their life history
4. BE ABLE TO IDENTIFY invertebrate organisms down to the taxonomic level of Order
5. DEMONSTRATE the ability to correctly curate a survey collection

**G. INSTRUCTIONAL METHODS & ACTIVITIES**

Lecture, including readings with discussion will be the bulk of the “lecture” portion of the course. For the lab, students will be guided through structured exercises and observations that are designed to ensure that they understand the structure of invertebrates, the evolutionary relationships among the phyla that the structure reveals, and the methods by which invertebrates are classified and identified. Survey collections made during field trips will augment the materials used in the lab.

**H. MAJOR COURSE REQUIREMENTS & GRADING CRITERIA**

<table>
<thead>
<tr>
<th>Element</th>
<th>Student Learning Outcome</th>
<th>Points (% of Grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Exams (3)</td>
<td>1-3</td>
<td>300 (37.5%)</td>
</tr>
<tr>
<td>Vocabulary Quizzes (10)</td>
<td>1-2</td>
<td>100 (12.5%)</td>
</tr>
<tr>
<td>Lab Quizzes (10)</td>
<td>1-3</td>
<td>100 (12.5%)</td>
</tr>
<tr>
<td>Lab Exams (2)</td>
<td>1, 3, 4</td>
<td>200 (25%)</td>
</tr>
<tr>
<td>Survey Collection</td>
<td>5</td>
<td>100 (12.5%)</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>800</td>
</tr>
</tbody>
</table>

Grades will be assigned as follows:
A = 90% or greater
B = 80-89%
C = 70-79%
D =60-69%
F = <70%

**I. COURSE CONTENT/SCHEDULE**

TBA
J. COURSE POLICIES

Attendance/Tardiness
You are expected to attend every lecture and lab. Courtesy dictates that you will be on time for lecture.

When we are working outside during lab, please arrive at the assembly point 5 to 10 minutes early. For activities on campus you may be able to catch up, but for field trips off campus you WILL BE LEFT BEHIND IF YOU ARE NOT ON TIME.

Late Work and Make-up Exams
Late work is not accepted.

Make-up lecture exams are only given in the case of extreme circumstances, such as hospitalization or death. Documentation of the circumstances through the appropriate on-campus division will be expected and arrangements must be made PRIOR to the exam for a make-up exam to be given.

There are NO make-ups for lab exams

There is NO alternate credit given for the survey collection. You must attend the field trip and do the curation activity to get credit.

Extra Credit
There is no such thing as “extra credit” in this class. In the words of Spongebob Squarepants and Mrs. Puff:

Spongebob: “Mrs. Puff, I don’t feel like I really did anything.”
Mrs. Puff: “That’s how extra credit is supposed to feel.”

For more about my attitude toward extra credit, see this article by Jack Slay Jr. http://chronicle.com/article/No-Extra-Credit-For-You/44956

Cell Phone Use
Please turn off and stow your cell phone when you come to class.

Laptop Use
I think you are generally better off to take notes by hand and transcribing them later. I will tolerate laptop use in class as long as you limit yourself to taking notes. If I see you are doing other things, like surfing the web, I will ask you to turn the laptop off.

Food in Class
Food or drinks are allowed in the lecture classroom, but cannot be taken into the lab. You should bring water with you on days that we are in the field.

Missed Exam
See “Late Work and Make-up Exam” policies above.

K. COLLEGE & UNIVERSITY POLICIES

Academic Integrity (University)
It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior.
See Full University Policy at http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity
Classroom/Professional Behavior

Deadline for Dropping a Course with a Grade of W (University)
The grade of W will be assigned to any student officially dropping a course by November 6, 2015. No student is eligible to receive a W without completing the official drop process by this deadline. Visit the Office of the University Registrar for the Course Drop Form that must submitted. After November 6, 2015 a student will not be allowed to drop a course.

Grade Appeals (College of Science and Engineering)
As stated in University Procedure 13.02.99.C2.01, 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 upon 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, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at http://www.tamucc.edu/provost/university_rules/index.html, and the College of Science and Engineering Grade Appeals webpage at 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, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

Disability Services
Disability Services (DS) is the hub for coordinating services and accommodations to ensure accessibility and utilization of all programs for all Texas A&M University-Corpus Christi students with disabilities. Our services are designed to meet the unique educational needs of enrolled students with documented permanent or temporary disabilities. DS provides intake and consultation services to students seeking to register with our office. DS reviews an individual’s documentation of disability and assesses eligibility for services and the determination of reasonable accommodations. For more information visit the Disability Services Office at 116 Corpus Christi Hall or go to http://disabilityservices.tamucc.edu/

GENERAL DISCLAIMER
I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.