



## Biological Sciences

### BIOL 308 -- Invertebrate Zoology Course Syllabus

<b>Instructor:</b>	<a href="#">Dr. David Allard</a>
<b>Office:</b>	219A SCIT
<b>Schedule:</b>	Office Hours MTW 8-10:30; 1-4
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<b>Catalog Description:</b>	<b>BIOL 308 Invertebrate Zoology.</b> This course will explore the diversity of invertebrate types, morphologically, embryologically, and physiologically. The ecological role of invertebrates will be emphasized. Prerequisite: 2 semesters of biology.
<b>Required Text:</b>	Pechenik, Jan A. 2004. Biology of the Invertebrates. 6th Edition. McGraw-Hill. ISBN: 0073028266
<b>Course Objectives:</b>	The general objective of this course is to familiarize the student with the basic concepts of invertebrate zoology. After taking this course the student should have an understanding of the following concepts: (1) Familiarity with the invertebrate phyla; (2) Invertebrate anatomy; (3) Invertebrate natural history; (3) Collection methods; (4) Invertebrate

	behavior; (5) Evolution of invertebrates.
<b>Tentative Course Outline</b>	
Introduction -- Invertebrate Zoology Basics -- Read Chapters 1 and 2	
Protozoa Lab	
Protozoa Lecture -- Read Chapter 3	
Porifera Lab	
Field Collection on your own	
Porifera Lecture -- Read Chapter 4 Cnidaria Lab	
Cnidaria & Ctenophora Lecture -- Read Chapters 5, 6 & 7	
<b>Lab Exam I</b>	
<b>Lecture Exam I</b>	
Platyhelminthes Lab	
Platyhelminthes Lecture -- Read Chapter 8	
Nematode Lab	
Nematodes & Friends Lecture -- Read Chapters 16 & 17 Classification Activity	
Field Collection	
Rotifera & Friends Lecture -- Read Chapter 11	
Annelida Lecture -- Read Chapter 13	
Field Collection Foram Activity	
<b>Foram Activity Due</b>	
Annelida Lab	
Lab Practice/Field Collection	
<b>Lab Exam II</b>	
<b>Lecture Exam II</b>	
Mollusca Lab	
Mollusca Lecture	
Arthropod Lab	
Arthropod Lecture	
Echinoderm Lab	
Field Collection	

Echinoderm Lecture -- Read Chapter 20	
Field Collection	
<b>Lab Exam III -- Scavenger Hunt and Specimen Collection Due</b>	
<b>Lecture Exam III</b>	
<p><b>Check the A&amp;M-Texarkana semester calendar for important dates</b>  <a href="http://www.tamut.edu/admissions/springschedule2010.htm#SEMESTER%20CALENDAR">http://www.tamut.edu/admissions/springschedule2010.htm#SEMESTER%20CALENDAR</a></p>	
<b>Evaluation:</b>	<p>Three lecture exams, each worth 100 points will be given. Make-up exams may be made available in the event that the instructor receives notification prior to the scheduled examination time. Daily quizzes are also given and averaged for a lecture grade. The average of lecture work will comprise two-thirds of your grade. Laboratory exams and other work (Specimen collections, and other assignments) will be also be given. The average of this work will comprise one-third of your grade. I will make every attempt to return your work by the next class period if possible and certainly within one week.</p> <p><b>*Please note:</b> There <b>may</b> also be unannounced pop-quizzes (you must be in your seat at the time the pop quizzes are handed out in order to take them), <b>possibly</b> some homework assignments and/or a <b>class project</b>, <i>journals</i>, and take-home exams. Your grade on late work may be reduced by 10 points per day.</p>
<b>Grading Scale:</b>	<p>&gt; 90% = A  80% - &lt;90% = B  70% - &lt;80% = C  60% - &lt;70% = D  &lt;60% = F</p>
<b>Make-up exams:</b>	<p>Any make-up lecture exams will be given only with a valid <i>University</i> excuse (documentation) for missing a regularly scheduled major exam; they may be of the <b>essay type</b> and scheduled at the earliest possible time following the absence. It is the <b>responsibility of the student</b> to inquire as to the procedure for making up an exam. The student is advised to report to me ASAP for instructions on taking the make-up exam. No exemptions/exceptions. A grade of zero (0) will be recorded if the make-up is not taken in a timely manner. There are <b>no make-ups</b> on pop-quizzes, other class assignments, or lab exams.</p>
<b>Attendance Policy and Withdrawal:</b>	<p>I <b>strongly suggest</b> you attend class on a regular basis each week. This class is scheduled for 2 days/wk and missing class will put you behind. If you miss a class, you must get the notes from a colleague; I will be glad to provide any handout material. I also suggest you arrive to class on time as daily quizzes, if administered, are given promptly at the <b>beginning</b> of class and cannot be made up and will not be given if you are not in your seat when they are handed out. The final drop/withdrawal date for the Spring semester is published in the University Calendar. Please also see University catalog procedure for dropping a course. I may also use the <u>administrative drop</u> for students missing too many classes, <i>see University catalog</i>.</p>

<b>Academic Integrity:</b>	Academic honesty is expected of students enrolled in this course. Cheating on examinations, unauthorized collaboration, falsification of research data, plagiarism, and undocumented use of materials from any source constitute academic dishonesty and may be grounds for a grade of 'F' in the course and/or disciplinary actions. For additional information, see the university catalog. Additional information on plagiarism can be found at <a href="http://www.turnitin.com/research_site/e_what_is_plagiarism.html">http://www.turnitin.com/research_site/e_what_is_plagiarism.html</a>
<b>Disability Accommodations:</b>	Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.
<b>Classroom Protocol:</b>	<b>Informal (professional) class participation is always welcome. Please do not make comments that are off the subject or that impede the progress of the class.</b> If a student's behavior is such that it disturbs the learning process of others or shows outright disrespect for the instructor, the instructor will request the student to cease the disruptive behavior. Please refrain from talking, whispering, or other negative behaviors that might distract the instructor or colleagues. If a student continues to be disruptive, the instructor may request they leave the classroom for the remainder of the period and visit an appropriate TAMU-T administrator. Students may be expelled from the course for inappropriate behavior. Please try to remain in your seat during lecture unless there is an emergency. <b>No cell-phone or beeper in class.</b> Thanks!
<b>A&amp;M-Texarkana Email Address:</b>	Upon application to Texas A&M University-Texarkana an individual will be assigned an A&M-Texarkana email account. This email account will be used to deliver official university correspondence. Each individual is responsible for information sent and received via the university email account and is expected to check the official A&M-Texarkana email account on a frequent and consistent basis. Faculty and students are required to utilize the university email account when communicating about coursework.
<b>Notes:</b>	<b>I reserve the right to make changes in the course schedule at any time during the semester. Please check the course homepage and syllabus on the internet for updates.</b> The faculty of Science, Technology, Engineering and Mathematics is committed to the continuous improvement in the quality of instruction. Student input is important and will be obtained at the end of the course.
<b>SBEC Standards Covered:</b>	<b>Knowledge and Skills Standards:</b> 1.1k, 1.2k, 1.3k, 1.4k, 1.5k, 1.6k, 1.8k, 1.5s, 1.6s, 1.8s, 2.1k, 2.2k, 2.1s, 2.2s, 2.4s, 2.8s, 7.2k, 7.7k, 7.2s, 7.3s, 7.5s, 7.6s <b>Technology Standards:</b> 2.1k, 2.1s, 3.2k, 3.11s, 3.12s,
<b>Eagle Alert for weather and other emergencies</b>	Go to <a href="http://www.tamut.edu/eaglealert.html">http://www.tamut.edu/eaglealert.html</a> to sign up. Texas A&M University-Texarkana is pleased to announce that we now have a state-of-the-art message system that is capable of sending emergency notifications instantly and simultaneously to all registered mobile phones, Blackberries, wireless PDAs, pagers, Smart or Satellite phones, and email addresses.

<p><b>You should check your personal information on Web for Students (<a href="http://merlin.tamut.edu/">merlin.tamut.edu/</a>) in order to assure that your personal data is up-to-date.</b></p>	
<p><b>Student Technical Assistance for Blackboard:</b></p>	<p>Solutions to common problems for Blackboard and FAQ's are found at this link: <a href="http://www.tamut.edu/webcourses/index.php?pageid=37">http://www.tamut.edu/webcourses/index.php?pageid=37</a></p> <p>If you cannot find your resolution there you can send in a support request detailing your specific problem here:  <a href="http://www.tamut.edu/webcourses/gethelp2.php">http://www.tamut.edu/webcourses/gethelp2.php</a></p> <p>Blackboard Helpdesk contacts:</p> <p>Office hours are M-F, 8:00a to 5:00p Kevin Williams (main contact) 903-223-1356 <a href="mailto:kevin.williams@tamut.edu">kevin.williams@tamut.edu</a></p> <p>Frank Miller (back-up) 903-223-3156 <a href="mailto:frank.miller@tamut.edu">frank.miller@tamut.edu</a></p> <p>Nikki Thomson (back-up) 903-223-3083 <a href="mailto:nikki.thomson@tamut.edu">nikki.thomson@tamut.edu</a></p>
<p><b>Technical Requirements for Blackboard:</b></p>	<p><i>Minimum System Requirements</i></p> <p>The following computer system requirements are recommended for an online course: <b>OS:</b> Windows 2000/XP/Vista, Mac OSX 10.2 and above  <b>RAM:</b> 256 MB, Processor: 1.0 GHz, Free Space on HDD: 500 MB  <b>Internet Connection:</b> (Broadband/DSL preferred), Dial Up 56k minimum  <b>Browser:</b> Internet Explorer 6 or 7, Mozilla Firefox 2.0, Safari 1.0  <b>Java:</b> Version 6 Update 11 or later Sound card and speakers</p> <p>Software Requirements</p> <p><b>Pop-Up Blockers</b></p> <p>All pop-up blockers installed on your computer must be set to allow pop-ups from Blackboard  (<a href="http://www.tamut.edu/webcourses/index.php?pageid=37">http://www.tamut.edu/webcourses/index.php?pageid=37</a>)</p> <p><b>Java Runtime Environment</b></p> <p>You must have the Java Runtime Environment installed. This is a free plugin for your browser that can be obtained by going to <a href="http://www.java.com">http://www.java.com</a>.</p> <p><b>Additional Plugins</b></p> <p>You may need additional software based on the content that your instructor posts in their course. Commonly needed applications are:</p>

	<p><b>Microsoft Office 2007 / 2003 / XP Suite/ Works (Not free software)</b></p> <p><b>Adobe Acrobat Reader (<a href="#">Free Download</a>)</b></p> <p><b>Windows Media Player (<a href="#">Free Download</a>)</b></p> <p><b>Real Time Media Player (<a href="#">Free Download</a>)</b></p> <p><b>Quick Time Media Player (<a href="#">Free Download</a>)</b></p> <p><b>Macromedia/Adobe Flash (<a href="#">Free Download</a>)</b></p> <p><b>Macromedia/Adobe Shockwave (<a href="#">Free Download</a>)</b></p>
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### Criteria for grading essays

0 - < 6 points	6 points	7 points	8 points	9 – 10 points
<p>The answer demonstrates little or no grasp of the topic. The response: (1) may significantly misstate facts or misinterpret them; (2) may fail to completely justify the choice of factors; (3) may be a string of generalizations without specifics or specifics without generalizations ; (4) has structure and mechanics which may cause the reader significant difficulty.</p>	<p>The answer demonstrates only limited understanding or a partial misunderstanding of the topic. The response: (1) may use unimportant factors or may explain important factors or their significance with little coherence or specificity; (2) may make a number of serious factual errors; (3) has structure and mechanics which sometime impede the reader's understanding.</p>	<p>The answer demonstrates an acceptable but commonplace understanding of the topic. The response: (1) presents important factors but explains them with only the most obvious specifics; (2) delineates only the most obvious implications; (3) has structure and mechanics which may cause the reader minor distractions.</p>	<p>The answer demonstrates an accurate grasp of the topic. The response: (1) presents important factors and explains them with appropriate specifics; (2) shows less detailed knowledge and less synthesis than the A response; (3) has structure and mechanics which usually serve content</p>	<p>The answer shows a superior understanding of the topic. The written response: (1) presents factors of central significance and explains them with substantial factual detail; (2) clearly shows how these factors operate; (3) has structure and mechanics which serve content.</p>