



**Biology 450 – Limnology  
Course Syllabus**

<b>Instructor:</b>	Dr. David Allard	
<b>Office:</b>	219A SCIT (Main Campus)	
<b>Schedule:</b>	<b>Office Hours</b> <ul style="list-style-type: none"> <li>• 1:00 - 5:00 M</li> <li>• 12:00 – 3:00 TR</li> <li>• I am in my office on most days but be sure to call beforehand to make sure. Also feel free to drop in anytime I am there.</li> </ul>	<b>Class Hours</b> <ul style="list-style-type: none"> <li>• BIOL 308 – 5:00-8:40 M</li> <li>• BIOL 2402 – 9:30-12:00 TR</li> <li>• BIOL 450 – 1:00-4:40 F</li> <li>• BIOL 510 – TBA</li> </ul>
	Check <a href="http://www.tamut.edu/~allard/officehours.htm">http://www.tamut.edu/~allard/officehours.htm</a> for updates	
<b>Phone:</b>	(903) 334-6672	
<b>Personal Webpage:</b>	<a href="http://www.tamut.edu/~allard/index.html">http://www.tamut.edu/~allard/index.html</a>	
<b>Email:</b>	David.Allard@tamut.edu	
<b>Blackboard Site</b>	<a href="http://bb91a.tamut.edu/">http://bb91a.tamut.edu/</a>	
<b>Student 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>Catalog Description:</b>	<b>BSC 450 Limnology.</b> Study of the biological, chemical, and physical characteristics of the freshwater environment. Prerequisites: Two semesters of biology.	
<b>Text:</b>	Dodson, Stanley. 2005. Introduction to Limnology. McGraw Hill Higher Education. ISBN 0-07-287935-1. \$126.88 Website - <a href="http://highered.mcgraw-hill.com/sites/0072879351/">http://highered.mcgraw-hill.com/sites/0072879351/</a>	
<b>Course Objective:</b>	Upon completion of this course the student will exhibit an understanding of the basic principles of limnology including the	

	<p>structure of freshwater ecosystems, and the important physical, chemical, and biology parameters of these systems.</p>
<p><b><u>Tentative Course Outline</u></b></p>	
	<ul style="list-style-type: none"> <li>• History of Limnology</li> <li>• Structure of Aquatic Ecosystems</li> <li>• Lakes and Reservoirs</li> <li>• Streams</li> <li>• Physical Factors</li> <li>• Water and Light</li> <li>• Heat</li> <li>• <b>Exam I</b></li> <li>• Water Movement</li> <li>• Chemicals and Growth Factors</li> <li>• Oxygen and Carbon Dioxide</li> <li>• Nitrogen</li> <li>• Phosphorus</li> <li>• Other Nutrients</li> <li>• <b>Exam II</b></li> <li>• Organisms</li> <li>• Phytoplankton</li> <li>• Zooplankton</li> <li>• Benthos</li> <li>• Fish</li> <li>• Food-Chain Dynamics</li> <li>• <b>Exam III</b></li> </ul>
<p><b>Evaluation:</b></p>	<p>Three lecture exams, each worth 100 points will be given.</p> <p><b>*Please note:</b> There <b>may</b> also be unannounced pop-quizzes, <b>possibly</b> some homework assignments and/or a <b>class project</b>, <i>journals</i>, and take-home exams.</p>
<p><b>Grading Scale:</b></p>	<p>&gt; 90% = A        80% - &lt;90% = B        70% - &lt;80% = C        60% - &lt;70% = D        &lt;60% = F</p>
<p><b>Make-up exams:</b></p>	<p>All make-up lecture exams will be given only with a valid <i>University</i> excuse (documentation) for missing a regularly scheduled major exam; they will 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</p>

	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.
<b>University Drop Policy:</b>	University Drop Policy: To drop this course after the 12th class day, a student must complete the Drop/Withdrawal Request Form, located on the University website ( <a href="http://tamut.edu/Registrar/droppingwithdrawing-from-classes.html">http://tamut.edu/Registrar/droppingwithdrawing-from-classes.html</a> ) or obtained in the Registrar's Office. The student must submit the signed and completed form to the instructor of each course indicated on the form to be dropped for his/her signature. The signature is not an "approval" to drop, but rather confirmation that the student has discussed the drop/withdrawal with the faculty member. The form must be submitted to the Registrar's office for processing in person, email <a href="mailto:Registrar@tamut.edu">Registrar@tamut.edu</a> , mail (P. O. Box 5518, Texarkana, TX 75505) or fax (903-223-3140). Drop/withdraw forms missing any of the required information will not be accepted by the Registrar's Office for processing. It is the student's responsibility to ensure that the form is completed properly before submission. If a student stops participating in class (attending and submitting assignments) but does not complete and submit the drop/withdrawal form, a final grade based on work completed as outlined in the syllabus will be assigned.
<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.
<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>	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. 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>Student</b>	Solutions to common problems for Blackboard and FAQ's are found

<p><b>Technical Assistance:</b></p>	<p>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- 223-3028 <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:</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</b> (Not free software)</p>

	<p><b>Adobe Acrobat Reader (<a href="#">Free Download</a>)</b> <b>Windows Media Player (<a href="#">Free Download</a>)</b> <b>Real Time Media Player (<a href="#">Free Download</a>)</b> <b>Quick Time Media Player (<a href="#">Free Download</a>)</b> <b>Macromedia/Adobe Flash (<a href="#">Free Download</a>)</b> <b>Macromedia/Adobe Shockwave (<a href="#">Free Download</a>)</b></p>
<b>Notes:</b>	<p>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.</p> <p>You should check your personal information on Web for Students (<a href="https://eagles.tamut.edu/pls/texp/twbkwbis.P_GenMenu?name=homepage">https://eagles.tamut.edu/pls/texp/twbkwbis.P_GenMenu?name=homepage</a>) in order to assure that your personal data is up-to-date.</p>

### 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>