



Biology 450 – Limnology Course Syllabus

Instructor:	Dr. David Allard
Office:	219A SCIT (Main Campus)
Schedule:	Office Hours MTW 8-10:30; 1-4 Check http://www.tamut.edu/~allard/officehours.htm for updates
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Personal Webpage:	http://www.tamut.edu/~allard/index.html
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Electronic Communication:	All email communication in the course will use Blackboard email or your A&M- Texarkana student email address.
Catalog Description:	BIOL 450 Limnology. Study of the biological, chemical, and physical characteristics of the freshwater environment. Prerequisites: Two semesters of biology.
Required Text:	Dodson, Stanley. 2005. Introduction to Limnology. McGraw Hill Higher Education. ISBN 0-07-287935-1. Website - http://highered.mcgraw-hill.com/sites/0072879351/
Course Objective:	Upon completion of this course the student will exhibit an understanding of the basic principles of limnology including the structure of freshwater ecosystems, and the important physical, chemical, and biology parameters of these systems.

Tentative Course Outline

- History of Limnology
- Structure of Aquatic Ecosystems
- Lakes and Reservoirs
- Streams
- Physical Factors
- Water and Light
- Heat
- **Exam I**
- Water Movement
- Chemicals and Growth Factors
- Oxygen and Carbon Dioxide
- Nitrogen
- Phosphorus
- Other Nutrients
- **Exam II**
- Organisms
- Phytoplankton
- Zooplankton
- Benthos
- Fish
- Food-Chain Dynamics
- **Exam III**

Check the A&M-Texarkana semester calendar for important dates

<http://www.tamut.edu/calendar/index.php?pageid=39>

Evaluation:

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. The average of these exams will comprise two-thirds of your grade. Daily quizzes (may be given), lab work, lab exams and other assignments will be given. The average of these will comprise one-third of your grade.

***Please note:** There **may** also be unannounced pop-quizzes, **possibly** some homework assignments and/or a **class project**, *journals*, and take-home exams.

Grading Scale:

> 90% = A
80% - <90% = B
70% - <80% = C
60% - <70% = D
<60% = F

Make-up exams:

All make-up lecture exams will be given only with a valid

	<p><i>University</i> excuse (documentation) for missing a regularly scheduled major exam; they will be of the essay type and scheduled at the earliest possible time following the absence. It is the responsibility of the student 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 no make-ups on pop-quizzes, other class assignments, or lab exams.</p>
<p>Attendance Policy and Withdrawal:</p>	<p>I strongly suggest 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 pop-quizzes, if administered, are given promptly at the beginning of class. Informal (professional) class participation is always welcome. The final drop/withdrawal date for the Fall semester can be found on at http://www.tamut.edu/admissions/fallschedule2006.htm#SEMESTER CALENDAR. Please also see the university catalog procedure for dropping a course. I may also use the administrative drop for students missing too many classes, see university catalog.</p>
<p>Academic Integrity:</p>	<p>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 http://www.turnitin.com/research_site/e_what_is_plagiarism.html</p>
<p>Disability Accommodations:</p>	<p>Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.</p>
<p>Classroom Protocol:</p>	<p>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</p>

	<p>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. No cell-phone or beeper in class. Thanks!</p>
<p>Eagle Alert for weather and other emergencies:</p>	<p>Go to http://www.tamut.edu/eaglealert.html to sign up.</p> <p>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>
<p>Student Technical Assistance:</p>	<p>Solutions to common problems for Blackboard and FAQ's are found at this link: http://www.tamut.edu/webcourses/index.php?pageid=37</p> <p>If you cannot find your resolution there you can send in a support request detailing your specific problem here: http://www.tamut.edu/webcourses/gethelp2.php</p> <p>Blackboard Helpdesk contacts:</p> <p>Office hours are M-F, 8:00a to 5:00p Kevin Williams (main contact) 903-223-1356 kevin.williams@tamut.edu</p> <p>Frank Miller (back-up) 903-223-3156 frank.miller@tamut.edu</p> <p>Nikki Thomson (back-up) 903-223-3083 nikki.thomson@tamut.edu</p>
<p>Technical Requirements:</p>	<p><i>Minimum System Requirements</i></p> <p>The following computer system requirements are recommended for an online course: OS: Windows 2000/XP/Vista, Mac OSX 10.2 and above RAM: 256 MB, Processor: 1.0 GHz, Free Space on HDD: 500 MB Internet Connection: (Broadband/DSL preferred), Dial Up 56k minimum Browser: Internet Explorer 6 or 7, Mozilla Firefox 2.0, Safari 1.0 Java: Version 6 Update 11 or later Sound card and speakers</p> <p>Software Requirements</p> <p>Pop-Up Blockers</p> <p>All pop-up blockers installed on your computer must be set to allow pop-ups from Blackboard</p>

	<p>http://www.tamut.edu/webcourses/index.php?pageid=37)</p> <p>Java Runtime Environment</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 http://www.java.com.</p> <p>Additional Plugins</p> <p>You may need additional software based on the content that your instructor posts in their course. Commonly needed applications are:</p> <p>Microsoft Office 2007 / 2003 / XP Suite/ Works (Not free software)</p> <p>Adobe Acrobat Reader (Free Download) Windows Media Player (Free Download) Real Time Media Player (Free Download) Quick Time Media Player (Free Download) Macromedia/Adobe Flash (Free Download) Macromedia/Adobe Shockwave (Free Download)</p>
<p>Notes:</p>	<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>The faculty of the College of Science, Technology, Engineering and Mathematics are committed to the continuous improvement in the quality of instruction. Student input is important and will be obtained at the end of the course.</p> <p>Check the A&M-Texarkana semester calendar for important dates http://www.tamut.edu/calendar/index.php?pageid=39</p> <p>You should check your personal information on Web for Students (https://eagles.tamut.edu/pls/texp/twbkwbis.P_GenMenu?name=homepage) in order to assure that your personal data is up-to-date.</p>
<p>Statement on email usage:</p>	<p>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</p>

	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.
SBEC Standards Covered:	Knowledge and Skills Standards: 2.6k, 2.1s, 2.9s, 2.10s, 2.11s, 3.1k, 3.3k, 3.4k, 3.8s, 3.9s, 3.10s, 5.1s, 6.1k, 6.2k, 6.3k, 6.4k, 6.5k, 6.7k, 6.8k, 6.9k, 6.10k, 6.3k, 6.4k, 6.5k, 6.7k, 7.1k, 7.5k, 7.7k, 7.2s, 7.4s, 7.6s, 11.1k, 11.3k, 11.5k, 11.6k, 11.6s, Life Science 9.6k, 9.3s, 9.10k, 9.17s, 9.18s, 9.15k, 9.36s, 9.37s, 9.38s