



Spring 2013

**Biology 1107 – Biology for Science Majors II Lab
Course Syllabus**

Instructor:	Dr. David Allard
Office:	SCIT 219A
Office Hours:	3pm-4pm Monday, 11am-4pm Tuesday, 12pm-4pm Thursday
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Course Description:	<p>This course provides students with hands-on exploration in the biological sciences. Content includes a survey of plants, animals, and microorganisms as well as studies of basic biological processes such as digestion, circulation, and nervous system function. Concurrent enrollment in the lecture portion BIOL 1307 is recommended in order to gain maximum benefit from this course (1 SCH).</p>
Required Textbooks/ Resources:	<p>Text</p> <ul style="list-style-type: none">• Morgan, J. G. and M. E. Carter. Investigating Biology Lab Manual (7th ed.), Benjamin Cummings Publisher, 2011. ISBN: 978-0321668219
Student Learning Outcomes:	<p>After completion of this course, the student:</p> <ul style="list-style-type: none">• Will be able to explain the basic concepts population genetics.• Will be able to explain the basic concepts of phylogenetics.• Will be able to recognize the diversity of non vascular plants.• Will be able to recognize the basic structure of a plant.• Will be able to identify the basic anatomical structures of the fetal pig.• Will be able to recognize the basic steps in vertebrate embryonic development.

	<ul style="list-style-type: none"> Will be able to use a computer model of a pond ecosystem.
Course Outline:	<ol style="list-style-type: none"> Week of January 21 - Introduction Week of January 28 - Lab Topic 12-Population Genetics II: Determining Genetic Variation (12.1) Week of February 4 – Bear Activity (Available on Blackboard) Week of February 11 - Exam 1 Week of February 18 - Lab Topic 15-Plant Diversity I: Nonvascular Plants (Bryophytes and Seedless Vascular Plants (15.1) Week of February 25 - Lab Topic 15-Plant Diversity I: Nonvascular Plants (Bryophytes and Seedless Vascular Plants (15.2) Week of March 4 - Lab Topic 20-Plant Anatomy (20.1, 20.2 20.3-prepared slides only, 20.4) Week of March 18 - Exam 2 Week of March 25 - Lab Topic 19-Animal Diversity II: Nematoda, Arthropoda, Echinodermata, and Chordata (19.4A, 19.4B) Week of April 1 - Lab Topic 22-Vertebrate Anatomy I Week of April 8 - Lab Topic 23- Vertebrate Anatomy II Week of April 15 - Exam 3 Week of April 22 - Lab Topic 24- Vertebrate Anatomy II (24.1, 24.2 A & B 24.3 A&B) Week of April 29 - Lab Topic 25-Animal Development (25.1B) Week of May 6 - Lab Topic 28-Ecology II Week of May 13 - Exam IV
Methods of Evaluation:	<p>Your grade in this course will be based on lab exams (100 points each), pre-lab quizzes and other assignments.</p> <p>Lab Exams = 67%</p> <p>Pre-lab quizzes = 33%</p> <p>You will receive a 0 on the pre-lab quiz if you don't attend lab that week. All lab exams and pre-lab quizzes are taken on Blackboard. The pre-lab quizzes must be taken before the current weeks' lab.</p>
Grading Scale:	A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = 0-59%
Student Participation:	<p>Students are expected to attend all lab sessions, to arrive at the designated beginning time for the class, and to remain until the designated dismissal time for the class. No make-up lab sessions will be given. (Authorized absences are granted for students who are approved by the appropriate administrator of the University. Examples of authorized absences include class field trips, University-sponsored workshops, musical performances, and intercollegiate</p>

	<p>sports participation.)</p> <p>Students must adhere to lab safety procedures at all times.</p> <p>Important: Cell phones are to be ‘turned off’ or ‘turned to vibrate’ during the laboratory sessions and during all exams. All computers, ipads etc. are to be put away.</p>
Tips:	<ol style="list-style-type: none"> 1. Come to class and pay attention. 2. Don’t just sit there, take notes. 3. Ask questions when you do not understand. 4. Read the exercises in your lab manual. 5. Review your notes daily. The experts say that in order to master course content you need to spend 2-3 hours of study for every hour you are in class. 6. Check Blackboard often and use any resources provided. 7. Check your ace mail daily.
Disability Accommodations:	<p>Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.</p>
Academic Integrity:	<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.</p>
Drop Policy:	<p>To drop this course after the census date (see semester calendar), a student must complete the Drop/Withdrawal Request Form, located on the University website (http://tamut.edu/Registrar/droppingwithdrawing-from-classes.html) 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 Registrar@tamut.edu, mail (7101 University Ave., Texarkana, TX 75503) 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.</p>

<p>Class Attendance:</p>	<p>Students who come to class make better grades than those who do not. It is important not to miss class. I take roll at the beginning of class. If you are not in your seat at that time you will be counted absent.</p>
<p>Student Technical Assistance</p>	<p>Technical Assistance Information:</p> <ul style="list-style-type: none"> • Solutions to common problems and FAQ's for your web-enhanced and web courses are found at this link: http://www.tamut.edu/Training/Student%20Training/index.html • If you cannot find your resolution there, you can send in a support request detailing your specific problem here: http://www.tamut.edu/techde/support.htm • Blackboard Helpdesk contacts (office hours are: Monday - Friday, 8:00a to 5:00p) <p>Julia Allen (main contact) 903-223-3154 julia.allen@tamut.edu Nikki Thomson (alternate) 903-223-3083 nikki.thomson@tamut.edu Jayson Ferguson (alternate) 903-223-3105 jayson.ferguson@tamut.edu</p> <p>Technical Requirements:</p> <p>Minimum Windows PC Requirements:</p> <ul style="list-style-type: none"> • Pentium IV 1.5GHz+ (preferred: Core Duo) • 1 GB RAM minimum (preferred: 2 GB) • 128MB Video Card minimum - Sound Card is required for some courses • 56K modem minimum (Cable or DSL required for some courses) • Windows 2000, XP, Vista or 7 • Web browser (Internet Explorer 7.0+; Firefox 3.0+) • Microsoft Word, minimum Office 97 <p>Some courses will need plug-ins such as Flash player 10 +, QuickTime player 7.0+, Adobe Reader 9.0+, Java Runtime Environment (Java 1.6.0_15), Windows Media Player 10+, RealPlayer, and Macromedia/Adobe Shockwave.</p> <p>Some online courses may also require a CD ROM (8x minimum, higher recommended)</p> <p>Blackboard has certified the following browsers for computers</p>

running Windows Operating Systems:

- Internet Explorer 8 or 9 (IE is not supported on Windows XP)
- Mozilla Firefox 3.6+
- Google Chrome

Minimum Apple Macintosh Requirements:

- Intel Core 2.0GHz+
- 1 GB RAM (preferred: 2 GB)
- 128MB Video Card minimum - Sound Card is required for some courses
- 56K modem minimum (Cable or DSL required for some courses)
- Web browser (Firefox 3.0+ ; Safari 3.0+)
- Microsoft Word, minimum Office 97

Some courses will need plug-ins such as Flash player 10+, QuickTime player 7.0+, Adobe Reader 9.0+, Java Runtime Environment, RealPlayer, and Macromedia/Adobe Shockwave.

Some online courses may also require a CD ROM (8x minimum, higher recommended)

Blackboard has certified the following browsers for computers running Macintosh Operating Systems:

- Mac OS 10.2 (Jaguar): (Safari 1 is compatible)
- Mac OS 10.3 (Panther): Safari 1.2 (Firefox 1.5 is compatible)
- Mac OS 10.4 (Tiger): Safari 2 and Firefox 1.5
- Mac OS 10.5 (Leopard): (Firefox 2.0 is compatible)

I-OS and Android Devices

These devices are currently supported using the Blackboard Mobile App, available for free from your App Store or scan the code below:



	<p>To access Texas A&M University - Texarkana, there is an individual license fee of \$1.99 per year or \$5.99 lifetime. This fee gives you access to the university from all your (same platform) devices; it is not necessary to pay the fee for each device you own.</p>
<p>A&M-Texarkana Email Address:</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 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.</p>
<p>Any pregnant students, or students planning to become pregnant, should consult their health care provider to determine what, if any, additional precautions are needed based on their individual situation. It is the responsibility of the student to communicate their needs to the Director of Student Life as soon as possible in order for risk-reduction to begin when it can be most effective, and to determine if additional modifications are necessary. While the university cannot mandate that the student notify it that she is pregnant or is planning to become pregnant, the university strongly recommends that students do provide notification so appropriate steps can be taken to ensure the health of both parent and child. To communicate health circumstances or to request additional information, please contact the Director of Student Life.</p>	
<p><u>The instructor reserves the right to make changes to this syllabus as necessary.</u></p>	