Biological Sciences

BIOLOGY 2402 – Human Anatomy and Physiology II
Course Syllabus

Instructor:	Dr. David Allard	
Office:	219A SCIT	
Schedule:	Office Hours • 1:00 - 5:00 M • 12:00 – 3:00 TR I am usually in my office on most days unless I am traveling or in a meeting. It is a good idea to call before you come in case I am out.	Class Schedule • BIOL 308 – 5:00-8:40 M • BIOL 2402 – 9:30-12:00 TR • BIOL 450 – 1:00-4:40 F • BIOL 510 – TBA
Phone/Fax:	(903) 334-6672	
Personal Webpage:	http://www.tamut.edu/~allard/index.html	
Blackboard site	http://bb91a.tamut.edu/	
Email:	David.Allard@tamut.edu	
Catalog Description:	**BIOL** 2402 Basic human anatomy and physiological principles focusing on the nervous, endocrine, digestive, respiratory, cardiovascular, immune, urinary, and reproductive organ systems.	

Required Text:	Martini et al. 2012 Fundamentals of Anatomy and Physiology. 9th Edition Benjamin Cummings. ISBN-10: 0321719794, ISBN-13: 9780321719799
Student Learning Objectives	At the conclusion of this course, the student should be able to demonstrate through written examinations, assignments, and oral discussion the following achievements: 1. Demonstrate a working knowledge of the language of anatomy involving anatomical position and related directional terms, planes regions, cavities, and membranes. 2. Explain the concept of homeostasis and describe how control systems operate to maintain homeostasis within the body systems. 3. Outline the role of cells, tissues organs and systems in the formation of an organism. 4. Understand the basic chemistry of the living organism, including chemical bonding, chemical reactions and inorganic and organic compounds. 5. Identify cellular structures and explain their functions. 6. Describe the cell cycle. 7. Describe the structure, function, and location of the four basic tissues in the body. 8. Identify and describe the structural features of the integumentary system and explain their functional roles in receiving, integrating, and conducting information. 9. Identify and describe the structural features of the skeletal system and explain their functional roles in osteogenesis and body movement. 10. Identify and describe the structural features of the muscular system and explain their functional roles in body movement, maintenance of posture, and hear production. 11. Identify selected muscles and their actions and bones, and bone landmarks of the human body. 12. Describe the organization of the nervous system from both anatomical and functional perspectives. 13. Describe the gross and microscopic anatomy of nervous tissue. 14. Discuss neurophysiology, including mechanism of resting membrane potential production of action potentials and impulse transmission. 15. Discuss the division origin, and function of the cranial nerves. 16. Describe the structure and function of the cranial nerves. 17. Describe the anatomy of the spinal cord and spinal nerves. 18. Discuss reflexes and their roles in nervous system function. 19. Explain the physiology of sensory and motor pathways in the brain and spinal cord. 20. List the functions of the autonomic nervous system.

	21. Compare and contrast the somatic and autonomic nervous systems.

Tentative Course Outline

- Neural Integration II: The Autonomic Nervous System and Higher-Order Functions
- The Special Senses
- The Endocrine System
- Blood
- The Heart
- **Exam I**
- Blood Vessels and Circulation
- The Lymphatic System and Immunity
- The Respiratory System
- The Digestive System
- **Exam II**
- Metabolism and Energetics
- The Urinary System
- Fluid, Electrolyte, and Acid-Base Balance
- The Reproductive System
- Development and Inheritance
- **Exam III**

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. 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. ***Please note:** There **may** 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), **possibly** some homework assignments and/or a **class project**, *journals*, and take-home exams. Your grade on late work may be reduced by 10 points per day.
Grading Scale:	> 90% = A 80% - <90% = B 70% - <80% = C 60% - <70% = D <60% = F
Make-up exams:	Any make-up lecture exams will be given only with a valid *University* excuse (documentation) for missing a regularly scheduled major exam;

	they may 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.
Drop Policy:	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 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 (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.
Academic Integrity:	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.
Disability Accommodations:	Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.
Classroom Protocol:	**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. **No cell-phone or beeper in class**. Thanks!
A&M-Texarkana Email Address:	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.
Notes:	**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.** 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.
Eagle Alert for weather and other emergencies	Go to http://www.tamut.edu/eaglealert.html 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.
Student Technical Assistance for Blackboard:	Solutions to common problems for Blackboard and FAQ's are found at this link: http://www.tamut.edu/webcourses/index.php?pageid=37 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 Blackboard Helpdesk contacts: Office hours are M-F, 8:00a to 5:00p Kevin Williams (main contact) 903-223-1356 kevin.williams@tamut.edu Frank Miller (back-up) 903-223-3156 frank.miller@tamut.edu Nikki Thomson (back-up) 903-223-3083 nikki.thomson@tamut.edu
Technical Requirements for Blackboard:	*Minimum System Requirements* 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

	Software Requirements **Pop-Up Blockers** All pop-up blockers installed on your computer must be set to allow pop-ups from Blackboard (http://www.tamut.edu/webcourses/index.php?pageid=37) **Java Runtime Environment** 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. **Additional Plugins** You may need additional software based on the content that your instructor posts in their course. Commonly needed applications are: **Microsoft Office 2007 / 2003 / XP Suite**/ Works (Not free software) **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)**