

Animal Physiology (BIOL3273) Syllabus FALL 2009

TENTATIVE CLASS SCHEDULE:

Date		Topics	Chapter	
August	Tuesday 25	Introduction	Organ system of the human body	
	Thursday 27		Membrane Dynamics	
September	Tuesday 1	Endocrine System	Integration and Homeostasis	
	Thursday 3		Introduction to the endocrine system	
	Tuesday 8	Nervous System	Neurons: Cellular and Network properties	
	Thursday 10		The central nervous system	
	Tuesday 15		Sensor physiology	
	Thursday 17		Autonomic and Somatic Motor Control	
	Tuesday 22	Exam 1		-
	Thursday 24	Locomotive System	Muscles	
	Tuesday 29		Control of body movement	
	Thursday 1		Cardiovascular System	Cardiovascular physiology
October	Tuesday 6	Cardiovascular System	Cardiac cycle	
	Thursday 8		Blood flow and the control of blood pressure	
	Tuesday 13	Fall recess		
	Thursday 15	Cardiovascular System	Tissue perfusion, Lymphatic system & Hematology	
	Tuesday 20	Exam 2		
	Thursday 22	Respiratory System	Mechanics of breathing	
	Tuesday 27		Gas exchange and transport	
	Thursday 29	Nephrology and Urinary System	The kidney	
	Tuesday 3		Fluid and electrolyte balance	
	Thursday 5		Acid-base balance	
November	Tuesday 10	Digestive System	Digestion	
	Thursday 12		Metabolism and energy balance	
	Tuesday 17	Exam 3		
	Thursday 19	Endocrine System	Endocrine control of growth and metabolism	
	Tuesday 24		Endocrine control of growth and metabolism	
December	Thursday 26	Thanksgiving break		
	Tuesday 1	Reproductive System	Male	
	Thursday 3		Female	
	Tuesday 8		Pregnancy	
	Thursday 10	Optional Exam Comprehensive		-
	Thursday 17	Final Exam Comprehensive		

CLASS MATERIALS: For this course the following material is needed

1- TEXTBOOK: **Human Physiology, an Integrated Approach**, D.U. Silverthorn, Pearson /Benjamin Cummings Ed, 2nd, 3rd, 4th Edition. <http://aw-bc.com>

2- SLIDES: Available on the class website accessible through 49ers account – blackboard

3- PERSONAL RESPONSE DEVICE (PRS or clicker): The clickers can be bought at the bookstore and must be of the radio frequency (RF) variety. Students will be expected to bring their clickers to class and use them for participation, individual feedback, and answering questions by simply pressing a button. This technology will be explained more fully in class. A portion of your exam grades will be determined by clicker participation making this device mandatory for every class meeting. This clicker can be used in multiple classes and UNCC has adopted this system campus-wide.

CLASSROOM EXPECTATIONS

This syllabus contains the policies and expectations established for Animal Physiology [Biol3273]. Please read the entire syllabus carefully before continuing in this course. These policies and expectations are intended to create a productive learning atmosphere for all students. Unless you are prepared to abide by these policies and expectations, you risk losing the opportunity to participate further in the course.

LEARNING PHYSIOLOGY

Physiology is an integrative science that is best memorized through active learning techniques. The class requires knowledge from multiple areas mostly **cell biology (BIOL3111, grade C or better)** and **chemistry (CHEM2130 or CHEM2131, grade C or better)** **are prerequisite and co-requisite for this Physiology course**, respectively.

Every student learns differently, to master the Animal Physiology Class, knowing (if don't already) your Learning style may be very helpful. An advocate of active learning, Dr. Felder, professor at North Carolina State University has developed an online (<http://www.engr.ncsu.edu/learningstyles/ilsweb.html>) test that I would urge you to take.

Goals:

- Learn essential concepts and facts about human physiology.
- Understand the major functions of organ systems in human.
- Learn how the body strives for and achieves homeostasis.

Objectives:

- Obtain a working vocabulary in physiology.
- Illustrate regulatory functions in each organ system.
- Analyze the function of organ systems.
- Develop critical thinking and problem solving skills.
- Experience practical application of physiological principles.

INSTRUCTOR

If you have questions, call or come see me after class. During the rest of the week, I am available by telephone & email and if need be an appointment can be set.

Didier Dréau	
Office	Science & Technology Bldg., Rm. 490B
Phone	704 687 8314
Email	through Web CT (49ers account)

Professional attitudes are expected when communicating by Email, phone calls, and during appointment meetings. I intend to provide timely responses to those communications. However, I will not respond to discourteous requests in tone or time (e.g., an Email at 11:00PM will not be answered right away...).

EXAMS and GRADING

A total of four in-class exams will be given ($20\% \times 4 = 80\%$). There will also be class quizzes that will account for 20% of your total grade. These quizzes will be throughout the class period and will cover material discussed in that same lecture. **Exams (in-class and quizzes)** materials include both the lecture and text.

In-class exams A total of four in-class exams (an hour each) will be given:

The exams consist of short answer-questions, multiple choices; fill in the blanks type and graphs or pictures interpretation. The final exam is mandatory and will be a **comprehensive** exam. Both course contents and questions, format and content of each exam are updated every semester. To prevent the commerce of old exams, a clear violation the UNCC Codes of Student Academic Integrity and Student Responsibility (see below), the

exams (questions and responses) will not be handed back to the student. However, after each exam, time will be set aside when each student will have the opportunity to look at his/her exam in the presence of the instructor. One additional exam will be available for students that missed one of the exams (not the final), or want to improve their grade. Each exam will account for 20% of the final grade. The 3 highest grades of Exam 1, 2, 3 or the optional Exam plus the grade obtained in the final Exam will therefore account for 80% of the final grade.

Quizzes Quizzes will be given unannounced during the lecture
 Online quizzes may also be given with sufficient time to reply (typically one week post-class announcement)
 Format of questions will be short answer, multiple choices
 The mean grade of the quizzes will count for 20% of the final grade

Comprehensive Evaluation in addition to the exams appropriately used to determine your grade in this course, you will also be taking 2 versions of a comprehensive test at the beginning and at the end of the semester. It designed as a tool to gauge the class level at the beginning of the semester and determine the knowledge acquired during the semester. The test will contain 50% of information you are expected to know (see class requirements) and 50% that you will learn during this semester. The grade obtained may count toward extra credit.

Attendance and Extra credit A repeated and noted class absence may translate in minus (up to -5 points). On the other hand, extra credit may be given as bonus points (up to 5 points) on exams, for class attendance, and foremost for responsiveness in class.

GRADING: For the final grade, letter grades will be assigned as follows:
 90-100% = A; 80-89% = B; 70-79% = C; 60-69% = D; and <60% =F

MAKEUP EXAMS This policy is based on fairness for all students. If you experience an emergency that prevents you from taking the exam, you will be allowed to replace the missed exam by participating to **ONE** optional comprehensive exam.

You will need to have legitimate documentation with explanation and contact me within 24 hours of the exam time. This allowance is available only once during the semester. Legitimate excuses are documentation from a physician, auto repair shop, police or court, all on appropriate letterhead stating why you could not be at the exam. Notes from parents do not count. An unexcused exam will result in zero point awarded. In exceptional and documented circumstances, an additional make-up exam (short and long essay answers only no multiple choice questions) may be arranged.

You are expected to attend ALL classes, and participate to ALL class exercises, take ALL quizzes and Exams. There will be no make-up quiz. An optional comprehensive exam will replace the exam missed during the semester. Additionally, students who attended all exams can participate in the optional exam. In that case, if the grade obtained is higher than one previously obtained, the optional exam grade will be used instead of the lowest exam grade.

ACADEMIC INTEGRITY AND ATTENDANCE

UNC Charlotte, Department of Biology and I are committed to providing an academic environment that values understanding, and mutual respect among its diverse members. In teaching this course I encourage all students to strive to reach his or her own maximum potential while recognizing that each of you is an individual. I encourage you to be engaged and communicate freely and will share with you the responsibility to maintain a learning environment that is respectful to everyone.

Ethics: Like all others at UNC Charlotte courses, BIOL3273 operates under the UNCC Codes of Student Academic Integrity and Student Responsibility. When you put your name on an exam, or any work and turn it in, you certify that the contents are your independent thoughts, unless clearly noted otherwise. Any evidence of cheating, copying or other type of academic dishonesty will not be tolerated and result in the grade of U for the course, or worse. See the UNCC code of student academic integrity.

Students are required to observe University policies on Attendance (UNCC 1999-2001 Catalog, 27) and Academic Integrity and Student Responsibility (UNCC 1999-2001 Catalog, 375-376). All work by students is subject to the standards of "The UNCC Code of Student Academic Integrity" and it is the responsibility of the student to understand the definitions of and penalties for violation.

All students are required to read and abide by the Code of **Student Academic Integrity**. Violations of the Code of Student Academic Integrity, including plagiarism, will result in disciplinary action as provided in the Code. Definitions and examples of plagiarism are set forth in the Code. The Code is available from the Dean of Students Office or online at: <http://www.legal.uncc.edu/policies/ps-105.html>

Orderly and Productive Conduct

I will conduct this class in an atmosphere of mutual respect. I encourage your active participation in class discussions. Each of us may have strongly differing opinions on the various topics of class discussions. The conflict of **ideas** is encouraged and welcome. The orderly questioning of the ideas of others, including mine, is similarly welcome. However, I will exercise my responsibility to manage the discussions so that ideas and argument can proceed in an orderly fashion. You should expect that if your conduct during class discussions seriously disrupts the atmosphere of mutual respect I expect in this class, you will not be permitted to participate further. Disruptions include but are not limited to use of electronic devices (other than those approved) such as cell phone (image, sound, text), food, and disruptive talks unrelated to the course.

Attendance in this class is mandatory, and you are expected to actively participate in all exercises. If team works are initiated, anticipate diversity in your project team and respect it. Make sure your team members are not excluded from activities or discussions. UNC Charlotte strives to create an academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

Syllabus Revision

ANY SYLLABUS REVISION WILL BE PRECEDED BY REASONABLE NOTICE TO THE STUDENTS:

The standards and requirements set forth in this syllabus may be modified at any time by the course instructor. Notice of such changes will be by announcement in class, written note, email notice, or changes to this syllabus posted on the course website (accessible through 49ers).

Instructor's Absence or Tardiness

If I am late in arriving to class, you must wait a full 20 minutes after the start of class before you may leave without being counted absent, or you must follow any written instructions I may give you about my anticipated tardiness.

Disabilities

Students in this course seeking accommodations to disabilities must first consult with the Office of Disability Services and follow the instructions of that office for obtaining accommodations.

Sexual Harassment

All students are required to abide by the UNC Charlotte Sexual Harassment Policy (<http://www.legal.uncc.edu/policies/ps-61.html>) and the policy on Responsible Use of University Computing and Electronic Communication Resources (<http://www.legal.uncc.edu/policies/ps-66.html>). Sexual harassment, as defined in the UNC Charlotte Sexual Harassment Policy, is prohibited, even when carried out through computers or other electronic communications systems, including course-based chat rooms or message boards.

Bad Weather

IF UNCC classes are canceled on the day of an exam, the exam will be held on the next class day. OR, IF classes are canceled for the lecture before an exam, the exam will be held as scheduled, during the next class meeting. Come prepared!

ACADEMIC EXCELLENCE

How to learn is to ACTIVELY gain knowledge or Understanding or skill by study, instruction or experience?

Preparation! Read *before* you come to class!!! Take a look at the figures.

Set Goals! Adhere to a study plan so that you can deal with questions and have that pleasant prepared feeling when you enter an exam

Organize! Keep all your notes and handouts together, arranged by lecture in a Notebook, and don't lose it!

BE HERE! Students who attend lectures earn better grades & find studying easier!

Stay Put! Come to class on time, so that lectures may begin promptly. Plan to sit still and pay attention.
What is not said must be read

Be considerate! Maximize learning opportunity for all students. Silence all electronic or other noisy devices so that you do not disrupt class. The use of cell phones, beepers, or other communication devices is disruptive, and is therefore prohibited during class. Except in emergencies, those using such devices must leave the classroom for the remainder of the class period. Students are permitted to use computers during class for note-taking and other class-related work **only**. Those using computers during class for work not related to that class must leave the classroom for the remainder of the class period.

Heads Up! Use those neurons. Did what I said make sense or was it contradictory?

Hands Up! Active participation is opportunities to maximize the instructor's resources and to pose questions which other students probably also share. Lecture not clear? Need info? ASK!

Make friends! Get to know other students: form study groups or telephone links. Talk physiology!

Limitations: Know your limits! Try to gauge the time it will take to complete a task, i.e. studying for an exam. Strive to realize what you can successfully and realistically accomplish within your private and professional life. Nothing feels better than a job well done!

Problems: **Address them before they metastasize.** If you feel lost, behind or have other concerns or conflicts about this course, talk to me promptly. Conversations are confidential.

Be Professional! *To your fellow students and to me*

Be Responsible! *Know what is expected & do it with a smile.*



Have fun learning!!

