Fall 2025 MWF 12:00 - 12:50 pm

Location: Life Science A204

Instructor: Dr. Dane A Crossley II

Office: Biology B214 Office Hours: M 1100 am or by appointment

Phone: (940) 369-7627 Email: [dane.crossley@unt.edu](mailto:dane.crossley@unt.edu)

Syllabus Not A Contract: The syllabus is not a contract and is therefore subject to change in response to unforeseen needs and events.

Course Description:

The course is designed to provide students with a fundamental understanding of how organ systems of diverse organism function.

Course Objectives

Students should be able to use critical thinking skills in applying biological knowledge to solve problems.

Topics include: 1) chemical structure and function as it relates to biology, 2) structure and function of cells and their components, 3) organ system function, 4) mechanisms of evolution.

Course Requirements:

**text:**  **Animal Physiology**by Hill, Richard - 5TH edition

Points in the class

Exams: There will be Four exams (three lecture exams and a non-comprehensive final exam each worth 50 points). If you are absent on an exam date due to a university sanctioned event, you will be excused from the exam. There are no make-up exams in the class. Exams will be based on text readings, class lectures and discussions. You must be on-time (not late) to take an exam.

Quizzes: twelve 10 point quizzes will be given during the semester. These will be multiple-choice quizzes and will be administered in Canvas. They will cover material presented in lecture and the textbook. Your highest 10 scores will be counted toward your grade. The same criteria for missed exams will be followed for quizzes.

Total Points possible.

Quizzes = 100

Midterms 150

Final 50

300

Grading: The final grade will be based on your point scores on the quizzes, midterm exams and the final. Grading will follow a standard scale: 90% is an A, 80% is a B, 70% is a C, and 60% is a D.

**Attendance and Participation Policy:**

The University attendance policy is in effect for this course. Students are responsible to notify the instructor if they are missing class and for what reason. Absences due to participation in sponsored activities must be approved in advance by the department chair and academic dean. Within three days after the absence, students must obtain authorized absence cards from the Dean of Students for presentation to their instructors. The only excused absences recognized by the University of North Texas are observation of religious holiday, military service or wherein a student is representing the university in an official capacity such as athletics or band. According to UNT policy: “*An activity or event is organized and sponsored by the university when it has been planned, funded and properly approved by the appropriate university official”.* Absence due to medical reasons may be excused but must be documented by a medical professional. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent (this is the only exception to the copyright policy below).

• Only students enrolled in the course are allowed to attend lectures.

**Conduct in the Classroom**

Appropriate behavior is expected of all students taking this course. Student behavior such as showing up late, that interferes with an instructor’s ability to conduct a class or other students' opportunity to learn is unacceptable, disruptive and will not be tolerated. Students engaging in unacceptable behavior will be directed to leave the classroom and referred to the Center for Student Rights and Responsibilities.

• Arrive to class promptly and do not leave until the scheduled ending time of the class.

•

**Disabilities Accommodation:**

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at http://www.unt.edu/oda. You may also contact them by phone at 940.565.4323.

**Academic Integrity:**

In this class, academic misconduct will automatically result in a failing grade.

The Department of Biological Sciences adheres to and enforces UNT’s policy on academic integrity (cheating, plagiarism, forgery, fabrication, facilitating academic dishonesty and sabotage). Academic misconduct also includes the unacknowledged use of materials prepared by another person or agency in the distribution of academic materials. According to University policy, if you become aware of any misconduct related to academic integrity, you should inform me or another proper authority such as the department chair or associate dean. Failure to do so is considered academic misconduct. Students in this class should review the policy (UNT Policy Manual Section 18.1.16), online at <http://policy.unt.edu/sites/default/files/untpolicy/pdf/7-Student_Affairs-Academic_Integrity.pdf>. Violations of academic integrity in this course will addressed in compliance with the penalties and procedures laid out in this policy.

UNT Copyright Compliance Policy (16.13.3)

Copyright Infringement: Anyone who makes unauthorized use of copyrighted material in a manner that violates the copyright owner’s exclusive rights (except for narrowly defined exemptions) is committing copyright infringement and may be subject to civil and criminal penalties as well as disciplinary action by UNT. All materials generated for this course, which include but are not limited to syllabi, lectures and notes, quizzes, exams, in-class materials, review sheets, etc… are protected by copyright law. You do not have the right to copy and distribute the any course materials. You are authorized to take notes in class thereby creating a derivative work from my lecture, the authorization extends only to making one set of notes for your personal use and no other. You are not authorized to record lectures, to provide your notes to anyone else or to make any commercial use of them.

Anti-Piracy Warning: The unauthorized reproduction or distribution of copyrighted work is illegal. Criminal copyright infringement, including infringement without monetary gain, is investigated by the FBI and is punishable by up to five years in federal prison and a fine of $250,000

•Unauthorized duplication, distribution or use of classroom training materials such as textbooks, PowerPoint presentations and any other learning materials provided.

•Unauthorized duplication, distribution or use of online training content, including computer software, online courses, skills assessments, sound or video recordings, training data and reports.

•Unauthorized duplication, distribution or use of web site content, including -authored articles and case histories, sound or video recordings, photos and graphics, etc.

**LECTURE: BOOK CHAPTERS, TOPICS AND EXAM SEQUENCE:**

Unit 1 and 2 are primarily introduction and background. Chapter 1 and 2

Unit 3 Chemistry, Biochemistry and Cell Physiology Chapter 3-5

Unit 4 Cell Signaling and Endocrine. Chapter 16

EXAM #1, Sept 12th

Unit 5 Neuron Structure and Function Chapter 12 and 13

Unit 6 Cellular Movement and Muscles Chapter 19 and 20

Unit 7 Sensory Systems Chapter 14

EXAM #2, Oct 10th

Unit 9 Circulatory Systems Chapter 25

Unit 11 Respiratory Systems Chapters 23 and 24

EXAM #3 Nov 7th

Unit 13 Ion and Water Balance Chapters 27-30

Unit 14 Digestion and Energy Metabolism Chapters 6-9

Unit 15 Thermal Physiology Chapter 10

**FINAL EXAM Dec 10th** 10:30 a.m. - 12:30 p.m.