

**TYLER JUNIOR COLLEGE**  
**School of University Studies**  
**COURSE SYLLABUS**

**COURSE NUMBER:** BIOL 1409  
**COURSE NAME:** Introductory Biology II  
**LABORATORY:** Students must register for an on-campus 2 ½ hour laboratory section  
**SEMESTER HOURS:** 4  
**PREREQUISITES:** None

**COURSE DESCRIPTION:** This course emphasizes the development, structure, and function of the organ-systems in man. This course is appropriate for both non-science and science majors.

**TEXTBOOKS:**

*Inquiry into Life*, 12th Edition, 2008. Author: Sylvia Mader

*Laboratory Manual for Introductory Biology, Human Biology, and Zoology*, 6th Edition, 2004.

Authors: Cates, Mayfield, and Brach

Optional: *A Guide to Biology Lab*, 3rd Edition. Author: Thomas Rust

**PURPOSE AND GOALS OF THE COURSE:** Students should leave the course with a firm grasp of how their bodies normally function and how the human population can become more fully integrated into the biosphere. This knowledge can be applied daily and helps assure our continued survival as individuals of a species. Goals include: 1) Appreciation of how the human body is organized; 2) Understanding how the body functions as a unit to maintain homeostasis; 3) Preparation to help the students make educated decisions about their bodies and their environment; and 4) Exposure to current issues of human biology, such as bioethics, new technology in the diagnosis and treatment of diseases, and genetic engineering.

**INSTRUCTOR INFORMATION:**

Instructor Name:	Cathryn Cates
Office Number:	Genecov 101A
Telephone Number:	(903)510-2533
Electronic Mail Address:	ccat@tjc.edu
Office Hours:	TR 12:40 to 3:10 p.m.; virtual on-line office hours MWF 11 a.m. -1 p.m.

**COURSE GRADE:** The **lecture grade** is determined by averaging the examinations and any assignments given during the semester and may include class participation. The **laboratory grade** is determined by averaging the weekly work (50%), the midterm practical exam (25%), and the final practical exam (25%). The **semester course grade** is determined by averaging the lecture grade, the laboratory grade, plus a **comprehensive final examination** as follows:

Lecture grade = 50%      Laboratory grade = 25%      Final Exam grade = 25%

A letter grade is based on the following percentages:

**A** = 90-100; **B** = 80-89; **C** = 70-79; **D** = 60-69; **F** = <60

**METHODS OF INSTRUCTION:** In class or online materials; e-mail and online discussions; assignments; exams; on-campus 2 1/2 hour laboratory class each week

**METHODS OF EVALUATION:** Examinations, assignments, and laboratory exercises. It is very important that you do not fall behind in your assignments. Staying on schedule is essential for being successful. Check the calendar frequently for important dates.

**SPECIAL NEEDS:** If any student in this class has special classroom or testing needs because of a physical, learning or emotional condition, the student must contact Support Services on the 2nd floor of the Rogers Student Center, 903-510-2878.

**PERFORMANCE/LEARNING OBJECTIVES (MINIMUM COMPETENCIES):** After studying the material presented in the text, in lecture, in outside assignments, and in the laboratory, the student should be able to complete all behavioral objectives listed below with a minimum competency of 60%.

- To describe the biological characteristics that define human beings
- To apply the scientific process to gather information and to arrive at conclusions
- To demonstrate the proper usage of anatomical and directional terms
- To interpret the role of homeostasis in maintaining health
- To compare and contrast the four general tissue types of man and to identify the location of each
- To describe the anatomy and explain the physiology of the following systems of man: integumentary, skeletal, muscular, digestive, circulatory, lymphatic, respiratory, urinary, nervous, endocrine, and reproductive
- To associate common human diseases with their causes, symptoms, and treatments
- To diagram the flow of energy and materials from the intake of nutrients to the chemical digestion and absorption of materials
- To trace the flow of blood through the body and explain how materials are exchanged
- To describe the mechanism by which breathing occurs, including inspiration and expiration
- To analyze the components of the sliding filament theory of muscle contraction
- To explain how a nerve impulse is initiated, transmitted, and interpreted
- To demonstrate proper use of laboratory equipment

#### **ATTENDANCE POLICY:**

##### **Student Attendance/Absence**

Attendance and participation in a traditional class or an Internet class is essential for being a successful student. Attendance includes communication with the Instructor and with your classmates. Instructors will maintain student attendance records throughout the semester. Students who will be absent from class for the observance of a religious holiday are responsible for informing their instructors prior to the holiday. (Section 52.911, Texas Education Code.) Students who will be absent from class due to their participation in a TJC sponsored or approved activity are responsible for informing their instructors prior to their absence in the form of a written notification prepared and signed by an instructional dean. Students are responsible for arranging to make up any course work missed due to absences for any reason. A student who is absent due to an official religious observance or a TJC sponsored or approved activity, and who has appropriately informed the instructor prior to the event, is entitled to make up missed course work. In other cases, the instructor will determine whether a student will be allowed to complete makeup work and the time and nature of the makeup work.

##### **Withdrawing from Courses**

Students are responsible for withdrawing from courses. A student may initiate a withdrawal from a course or from the college for any reason. **ALL WITHDRAWALS MUST BE PROCESSED BY AN ACADEMIC ADVISOR APPROPRIATE TO THE STUDENT'S MAJOR.** The student will receive a "W" for a course if a withdrawal form is submitted to the registrar's office by the date published by the TJC Registrar's Office.

Students will receive a failing grade (F) if they have not met minimum course requirements for a passing grade and have not withdrawn from the course.

A grade of "I" (incomplete) can be assigned for **emergency situations only** and requires the recommendation of the instructor and the approval of the department chairperson. Students must complete work for the course within 30 days after the start of the next regular semester or the "I" will convert to a grade of "F".

Only students enrolled in a class may attend. No visitors are permitted in the classroom

##### **Laboratory Attendance**

If a student has missed three or more labs and a withdrawal has not been processed, he/she will receive a grade of "F" for the course. Extenuating circumstances, such as extended illness will be considered on an individual basis.

#### **CODE OF CONDUCT**

Students are expected to conduct themselves at all times in accordance with Classroom Etiquette and the Student Code of Conduct as printed in the Tyler Junior College 2007-2008 *Student Handbook Online* posted at <http://www.tjc.edu/handbook>.

**INSTRUCTOR RESPONSE POLICY:** Unless out of town on college business, the instructor will try to respond to email within two days between 8 a.m. and 5 p.m. No responses will be made on Saturdays, Sundays, or holidays.

Revised 8/2008