

**COLLIN COUNTY COMMUNITY COLLEGE DISTRICT  
LECTURE SECTION SYLLABUS**

**COURSE NUMBER:** BIOL 1409

**COURSE TITLE:** Introduction to Biology II

**CREDIT HOURS:** 4 **LECTURE HOURS:** 3 **LAB HOURS:** 3

**PREREQUISITE:** BIOL 1408

**COREQUISITE:** BIOL 1409 Laboratory

**COURSE DESCRIPTION:**

For non-science majors. Continuation of Biology 1408. The biology of protistans, fungi, plants and animals with emphasis on general human anatomy and physiology. Current topics in biology and medicine will be discussed. Dissection included. Lab required.

**MEASURABLE STUDENT LEARNING OUTCOMES:**

Upon completion of this course the students should be able to do the following:

1. Explain the mechanism for evolutionary change proposed by Charles Darwin and its relationship to the “Modern Synthesis”.
2. Define Ernst Mayr’s biological species concept and distinguish it from the other major species concepts including the following: the morphological species concept, the ecological species concept, the paleontological species concept, and the phylogenetic species concept.
3. Define and distinguish the allopatric and sympatric modes of speciation.
4. Describe the process of using cladistics to reconstruct phylogenetic relationships and develop phylogenetic diagrams.
5. Describe the terrestrial adaptations that contributed to the success of seed plants.
6. Define the major characteristics that distinguish the animal kingdom from the other eukaryotic kingdoms.
7. Define and identify the major animal tissues and explain how their structure relates to their functions.
8. Describe the processes and structural components of the following animal systems: digestive, circulatory, and respiratory.

**COURSE REQUIREMENTS:**

Six lecture exams will be scheduled covering the text and lecture topics. The instructor may choose to give an optional comprehensive final to take the place of the lowest lecture grade. The laboratory section grades will be integrated with the lecture grade to produce the overall course grade at the end of the semester.

**COLLEGE REPEAT POLICY:**

A student may repeat this course only once after receiving a grade, including “W.”

**ATTENDANCE POLICY:**

May vary by instructor. See the current *Collin Registration Guide* for the last day to withdraw.

**RELIGIOUS HOLY DAYS:**

Please refer to the current *Collin Student Handbook*.

**ADA STATEMENT:**

It is the policy of Collin County Community College to provide reasonable and appropriate accommodations for individuals with documented disabilities. This College will adhere to all applicable Federal and State laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS Office (G-200) or 972.881.5898, (TDD- 972.881.5950) in a timely manner if he/she desires to arrange for accommodations.

**ACADEMIC ETHICS:**

The college may initiate disciplinary proceedings against a student accused of scholastic dishonesty. Scholastic dishonesty includes, but is not limited to, statements, acts, or omissions related to applications for enrollment or the award of a degree, and/or the submission of material as one’s own work that is not one’s own. Scholastic dishonesty may involve one or more of the following acts: cheating, plagiarism, collusion, and/or falsifying academic records.

**PLAGIARISM:**

Is the use of an author’s words or ideas as if they were one’s own without giving credit to the source, including, but not limited to, failure to acknowledge a direct quotation.

**CHEATING:**

Is the willful giving or receiving of information in an unauthorized manner during an examination, illicitly obtaining examination questions in advanced, copying computer or Internet files, using someone else’s work for the assignments as if it were one’s own, or any other dishonest means of attempting to fulfill the requirements of a course.

**COLLUSION:**

Is intentionally aiding or attempting to aid another in an act of scholastic dishonesty, including but not limited to, providing a paper or project to another student; providing an inappropriate level of assistance; communicating answers to a classmate during an examination; removing tests or answers from a test site, and allowing a classmate to copy answers.

**COLLIN COUNTY COMMUNITY COLLEGE DISTRICT  
LABORATORY SECTION SYLLABUS**

**COURSE NUMBER:** BIOL 1409

**COURSE TITLE:** Introduction to Biology II

**CREDIT HOURS:** 4 **LECTURE HOURS:** 3 **LAB HOURS:** 3

**PREREQUISITE:** BIOL 1408

**COREQUISITE:** BIOL 1409 Lecture

**COURSE DESCRIPTION:**

For non-science majors. Continuation of Biology 1408. The biology of protistans, fungi, plants and animals with emphasis on general human anatomy and physiology. Current topics in biology will be discussed. Dissection included.

**MEASURABLE STUDENT LEARNING OUTCOMES:**

Upon completion of this course the students should be able to do the following:

1. Explain the mechanism for evolutionary change proposed by Charles Darwin and its relationship to the “Modern Synthesis”.
2. Define Ernst Mayr’s biological species concept and distinguish it from the other major species concepts including the following: the morphological species concept, the ecological species concept, the paleontological species concept, and the phylogenetic species concept.
3. Define and distinguish the allopatric and sympatric modes of speciation.
4. Describe the process of using cladistics to reconstruct phylogenetic relationships and develop phylogenetic diagrams.
5. Describe the terrestrial adaptations that contributed to the success of seed plants.
6. Define the major characteristics that distinguish the animal kingdom from the other eukaryotic kingdoms.
7. Define and identify the major animal tissues and explain how their structure relates to their functions.
8. Describe the processes and structural components of the following animal systems: digestive, circulatory, and respiratory.

**COURSE REQUIREMENTS:**

The laboratory will have two comprehensive practical examinations to assess student understanding of lab materials and methods, in addition to weekly or biweekly lab quizzes and at least six (6) formal typed lab reports (possibly more) as required by the lab instructor. The instructor has the option of giving the lab quizzes over material covered in the previous lab(s) or to be covered in that day's upcoming lab, so students should be prepared for a quiz on that day's material before coming to lab.

**COLLEGE REPEAT POLICY:**

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**ATTENDANCE POLICY:**

May vary by instructor. See the current *Collin Registration Guide* for the last day to withdraw.

**RELIGIOUS HOLY DAYS:**

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