

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

COURSE NUMBER BIOL 1408

COURSE TITLE Introduction to Biology I

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

PRE-REQUISITE None

CO-REQUISITES BIOL 1408 Laboratory

COURSE DESCRIPTION

For non-science majors. Survey of biology including molecular and cellular biology, genetics, DNA, Microbiology, evolution, and ecology. Emphasis upon current topics in biology. Lab required.

TEXTBOOK

Biology: Concepts & Connections, 4th., Campbell et. al.

SUPPLIES

None

LEARNING OBJECTIVES

The objective of this course is to provide the non-science major with an understanding of the scientific method in general and basic biology in particular. State-of-the-art knowledge (in health, research, ecology, etc.) will structure this basic survey course sequence.

COURSE REQUIREMENTS

Lecture exams will be scheduled covering the text and lecture topics. The laboratory grade will be integrated with the lecture grade to produce the overall course grade at the end of the semester.

METHOD OF PRESENTATION

A combination of traditional lectures and alternative learning methods will be used. Films and other audio-visual materials will be used to enhance student understanding of scientific topics. Additional materials are available and listed for student use in the Alternative Learning Center. These materials include videos, filmstrips, and computer software that are tied to the lecture topics for each week. If you are having difficulties with the materials, it is strongly recommended that you try these additional resources.

METHOD OF EVALUATION

Overall course grade: Lecture section 70%
 Laboratory section 30%

Lecture: major exams
 quizzes as determined by the instructor

ATTENDANCE POLICY

Lecture attendance is **mandatory** for all students. Individual conflicts with this policy are to be discussed with the instructor. The instructor has the option of giving quizzes (announced or unannounced) in the lecture section as deemed necessary to ensure attendance and preparation of the students. If you do not drop in accordance with the CCCC Academic Calendar, a grade of "F" will be assigned. **Religious Holidays:** refer to Policies and Procedures, Sub-section Religious Holidays in the current CCCC Student Handbook.

IF YOU HAVE DIFFICULTIES

First see or call your instructor. If you are unable to resolve the problem, contact the divisional secretary at your campus. The Division of Mathematics and Natural Sciences office phone numbers are 548-6880 at Central Campus, 881-5880 at Spring Creek Campus, and 377-1580 at Preston Ridge Campus. The office of the Dean is located in F135 at the Spring Creek Campus.

STUDENT CONDUCT

The college expects students to conduct themselves in class in such a way as to not interfere with or disrupt the educational process. Students are to speak and act in a respectful manner toward their fellow students and the professor. Those who participate in inappropriate behavior such as, excessive talking, cell phone or pager use, verbal altercations, or blatantly disregarding instructor's directions will be asked to leave the class. Continuance of such behavior will result in permanent removal.

LATERAL TRANSFER POLICY

Lateral transfers will not be granted after the 4th week of class or after the first lecture exam, whichever comes first. Exceptions to this are for documented changes in work schedule and family emergencies. If a student does transfer to another section, all previous grades will accompany the student. However, the new instructor can require the student to retake any exam or quiz. For questions concerning this policy, contact the Biology Department Chair.

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.

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

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. Contact Barbara Money, Dean of Students, for the student disciplinary process and procedures or consult the CCCC Student Handbook.

AMERICAN DISABILITIES ACT 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 in a timely manner if he/she desires to arrange for appropriate accommodations.

**BIOLOGY 1408 - INTRODUCTION TO BIOLOGY I
LECTURE SCHEDULE**

WEEK	LECTURE TOPICS	CHAPTER
1	Intro. to Biology, Scientific Method	1
2	***9/6 Labor Day Holiday***	
	Chemical Basis of Life	2
3	Molecules of Cells	3
4	A Tour of the Cell	4
5	The Working Cell	5
6	Chemical Energy	6
7	Photosynthesis	7
8	Reproduction and Inheritance	8
9	Patterns of Inheritance	9
10	Molecular Biology of the Gene	10
11	Control of Gene Expression	11
12	DNA Technology and the Human Genome	12
	11/19 Last Day to Withdraw	
13	How Populations Evolve	13
	11/24-11/28 Thanksgiving Holiday	
14	Origin of Species and Evolutionary History	14 & 15
15	Prokaryotes	16
16	FINALS	

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

COURSE NUMBER BIOL 1408

COURSE TITLE Introduction to Biology I

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

PRE-REQUISITE None

CO-REQUISITES BIOL 1408 Lecture

COURSE DESCRIPTION

For non-science majors. Survey of biology including molecular and cellular biology, genetics, DNA, microbiology, evolution, and ecology. Emphasis upon current topics in biology. Lab required.

TEXTBOOKS FOR LABORATORY

CCCCD Biology Laboratory Manual

SUPPLIES

Loose-leaf notebook to keep lab reports and handouts
Labcoat or apron and latex gloves, if desired, for some labs

LEARNING OBJECTIVES

The objective of this course is to provide the non-science major with an understanding of the scientific method in general and basic biology in particular. State-of-the-art knowledge (in health, research, ecology, etc.) will structure this basic survey course sequence. The laboratory will reinforce concepts and principles learned in the lecture section of this course.

COURSE REQUIREMENTS

The laboratory will have two comprehensive practical examinations, in addition to quizzes and formal lab reports.

METHOD OF PRESENTATION

Laboratory experiments will be mainly student participation, with some instructor demonstrations. Discussions of material covered in lab will precede or follow the lab topics. Films and other audio-visual materials may be used.

METHOD OF EVALUATION

Overall course grade: Lecture 70%, lab 30%

Lab: 2 practical exams - 20% each
 quizzes - 30% of lab grade
 lab reports - 30% of lab grade

ATTENDANCE POLICY

Laboratory attendance is mandatory. **Lab make-ups are only possible the week of the lab**, and the student must have permission to attend another lab. If a student misses one of the practical exams, they must make-up the exam. Instructors cannot count one practical exam grade twice. Contact your instructor immediately if you fail to take one of the practical exams. If you do not drop in accordance with the CCCC Academic Calendar, a grade of "F" will be assigned. **Religious Holidays:** refer to Policies and Procedures, Sub-section Religious Holidays in the current CCCCD Student Handbook.

STUDENT CONDUCT

The college expects students to conduct themselves in class in such a way as to not interfere with or disrupt the educational process. Students are to speak and act in a respectful manner toward their fellow students and the professor. Those who participate in inappropriate behavior such as, excessive talking, cell phone or pager use, verbal altercations, or blatantly disregarding instructor's directions will be asked to leave the class. Continuance of such behavior will result in permanent removal.

LATERAL TRANSFER POLICY

Lateral transfers will not be granted after the 4th week of class or after the first lecture exam, whichever ever comes first. Exceptions to this are for documented changes in work schedule and family emergencies. If a student does transfer to another section, all previous grades will accompany the student. However, the new instructor can require the student to retake any exam or quiz. For questions concerning this policy, contact the Biology Department Chair.

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.

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

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. Contact Barbara Money, Dean of Students, for the student disciplinary process and procedures or consult the CCCCD Student Handbook.

LAB POLICIES AND PROCEDURES

No eating or drinking of any kind is allowed in the lab. Proper dress is required at all times. This includes no open toed shoes. An instructor has the right to ask a student that is improperly dressed to leave the lab or modify how they are dressed.

IF YOU HAVE DIFFICULTIES

First see or call your instructor. If you are unable to resolve the problem, contact the divisional secretary at your campus. The Division of Mathematics and Natural Sciences office phone numbers are 548-6880 at Central Campus, 881-5880 at Spring Creek Campus, and 377-1580 at Preston Ridge Campus. The office of the Dean is located in F135 at the Spring Creek Campus.

AMERICAN DISABILITIES ACT 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 in a timely manner if he/she desires to arrange for appropriate accommodations.

**BIOLOGY 1408 - GENERAL BIOLOGY I
LABORATORY SYLLABUS**

WEEK	LABORATORY TOPICS	EXERCISES
1	Lab Orientation	Handouts
	Measurement	Unit 1
2	***9/6 Labor Day Holiday***	
	Scientific Method	Unit 2
	Spectrophotometry	Unit 3
3	Acids, Bases, pH	Unit 4
4	Macromolecules	Unit 5
5	Enzymes	Unit 6
6	Microscopy and Cytology	Unit 7
7	Lab Practical I	
8	Osmosis and Diffusion	Unit 8
9	Cellular Respiration	Unit 9
10	Photosynthesis	Unit 10
11	Cell Division	Unit 11
12	Biotechnology	Unit 13
	11/19 Last Day to Withdraw	
13	***11/24-11/28 Thanksgiving Holiday***	
	Labs will not meet.	
14	Prokaryotes	Unit 14
15	Lab Practical II	