

Northeastern Technical College
BIO 112: Basic Anatomy & Physiology
Spring 2012

Instructor: Miss Mackey; Office--801A with hours as posted
921-6971 (local) or 1-800-921-7399 (toll free--ext. 6971 if using this option)
E-mail: MMackey@netc.edu (please no spam); school's website: www.netc.edu

Required Materials: 1. Hole's Essentials of Human Anatomy and Physiology, 11th edition, 2011 by Shier, Butler, and Lewis
2. access code for **ARIS Moodle** site (available through website)
3. NETC student email address
4. safety glasses and lab aprons are available in lab upon request (no purchase required)

Course Description: This course is a basic integrated study of the structure and function of the human body.

Prerequisite: None

Attendance Policy: According to college policy, a student may miss 20% of the scheduled class periods. When a student exceeds this limit, he or she will be dropped for excessive absences. If the student initiates the withdrawal before midterm, a grade of W will be used. After midterm, the grade of W will only be used for students who are passing the course; if a student who is not passing initiates a drop after midterm, he or she will receive a WF.

If the instructor initiates the withdrawal due to excessive absenteeism, at any point during the course, a grade of F will be used for students who are dropped. If a student leaves class or lab early, the hours missed will be counted as part of the hours absences.

Three tardies will equal one absence. Please remember this when you are counting your absences. A tardy is when the student comes into class after the roll has been called. You are responsible for material covered in any class or lab you miss.

Grading Policy: Points will be taken off for spelling/grammatical errors on all graded work, except bonus questions. The following represents the percentage of each category toward the final average:

<u>Final Average</u>		<u>Grading Scale</u>	
Lecture average	= 60%	93 - 100	= A
Lab average	= 20%	86 - 92	= B
Comprehensive final	= 20%	78 - 85	= C
		71 - 77	= D
		Below 71	= F

Makeup Work: If a student submits any assignment past its due date and time, it will only be accepted if a "No Questions Asked" certificate is attached to the assignment. Any late work must be made up prior to or submitted upon the student's return to class or lab. One lab test grade will be dropped, so missed lab tests may not be made up or turned in late.

Lab: Practical tests and objective tests will be used in lab as assessments, with the lowest lab test grade being dropped prior to final averaging. No makeups will be available for lab tests or lab activities. Other activities may be assigned throughout the semester to supplement lab. These activities (along with online activities) will be averaged together as a lab test grade (misc. category). There are no makeups or late submissions allowed for these brief lab data sheets.

Online Activities: Students will have online activities to complete in Moodle on the NETC website. With the online activities, no credit will be issued for misspelled words or grammatical errors. It is the student's responsibility to be aware of due dates posted online, and there are no makeups on these quizzes. The Moodle quizzes will be averaged with the lab activities in the miscellaneous grade category as one lab test grade. In addition, announcements and handouts will be posted into Moodle, and students are expected to have printed the handouts in advance of lab or class, as needed.

Learning Outcomes:

The student will be able to

1. The student will be able to use the scientific method to solve problems.
2. Describe the primary inorganic and organic substances in the body and their uses.
3. Describe the three basic parts and functions of an animal cell.
4. Describe the appearance and major functions of the body tissue groups.
5. Name the primary organs and functions of each system of the body.
6. The student will use basic biological lab equipment, such as microscopes scalpels, glassware, pipettes, etc. for various lab experiments.

Assessment: Tests covering the assigned chapters of study will be given. No lecture test grades will be dropped. A comprehensive final will also be given. Lab tests may be given on the previous labs, and some labs may require that reports or worksheets be submitted. One lab test grade will be dropped before final averaging.

Extra Credit Information: Bonus questions may be offered on lecture tests at the discretion of the instructor.

General information: There is no eating, drinking, or smoking in any science lab at NETC as indicated by posted signs. Students should also familiarize themselves with the safety procedures as posted in classrooms and/or discussed in class. Each student must wear his or her student ID at all times when on campus. Use of cell phones/beepers or cameras is not permitted at any time during any class or lab. If needed, calculators will be supplied by the instructor.

Academic dishonesty: As stated in the college catalog, any student that plagiarizes or is caught cheating on any assignment in a course will receive a zero for that assignment. The documentation will be collected and reported to the Dean of Student Services.

Classroom Etiquette: An integral part of an education is developing a sense of integrity and responsibility toward faculty and other students. Arriving late to class, being unprepared, inappropriate talking while class is in session, using cell phones, etc. negatively reflects on you and your fellow students. Please be considerate to them and your instructor.

Disabilities Statement: Students with disabilities are encouraged to contact the Dean of Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Dean of Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs. (See *College Catalog*)

BIO 112 Proposed Topical Lecture Schedule: Any necessary changes will be announced via email or in class. Some topics may be covered during lab times.

Chap. 1--Introduction to Anatomy & Physiology

Chap. 2--Chemical Basis of Life

Test #1 on Chap. 1 & 2 (estimated week of January 30)

Chap. 3--Cells

Chap. 5--Tissues

Chap. 6--Integumentary System

Test #2 on Chap. 3, 5 & 6 (estimated week of February 13)

Chap. 7--Skeletal System

Chap. 8—Muscular System

Test #3 on Chap. 7 & 8 (estimated week of February 27)

Chap. 9—Nervous System

Chapter 10—The Senses

Chapter 11—Endocrine System

Test #4 on Chap. 9, 10, & 11 (estimated week of March 12)

Chapter 12—Blood

Chapter 13—Cardiovascular System

Chapter 14—Lymphatic System

Test #5 on Chapters 12, 13, & 14 (estimated week of March 26)

Chapter 15—Digestive System

Chapter 16—Respiratory System

Test #6 on Chapters 15 and 16 (estimated week of April 16)

Chapter 17—Urinary System

Chapter 18—Water, Electrolyte, & Acid-Base Balance

Chapter 19—Reproductive Systems

Chapter 20—Pregnancy, Growth, Development, & Genetics

Test #7 on Chapters 17, 28 19 & 20 (estimated week of April 30)

Comprehensive Final Exam (Exam Week May 7 - May 10, per exam schedule announcement)

BIO 112 Proposed Lab Schedule: Any necessary changes will be announced via email or in class. Some topics may be covered in lecture periods.

<u>LAB MEETING</u>	<u>TOPICS COVERED</u>
1	Lab Equipment Review; Lab Safety
2	Testing or Identification of Biochemistry/Organic Molecules (including DNA extraction)
3	Lab Test #1 on equipment, safety, and biochemistry; Microscopy & Cells
4	Cell Division; Introduction to Genetics; complete Microscopy & Cells if needed
5	Lab Test #2 on Cell Division, Genetics & Microscopy; Skeletal System
6	Muscular System; complete Skeletal System if needed
7	Lab Test #3 on Skeletal & Muscular Systems; begin Nervous System (brain, eye, & ear)
8	complete Nervous System (sensory receptors & reflexes); Endocrine System
9	Lab Test #4 on Nervous & Endocrine Systems; Lab on Blood
10	Cardiovascular System
11	Lab Test #5 on blood and cardiovascular system; Digestive system
12	Respiratory System
13	Lab Test #6 on Digestive & Respiratory Systems; Urinary System
14	complete study of urinary system (urinalysis lab); Reproductive System
15	Lab Test #7 on Urinary & Reproductive Systems; review for final exam as needed

Other Important Dates to Remember:

Wednesday, March 7: college wide midterm (last day to drop with a guaranteed “W”)

Monday, April 2 – April 6: No classes due to Spring Break

Monday, May 7 - Thursday, May 10: Exam Week