

BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE

**SYLLABUS AND COURSE OBJECTIVES
Fall 2014**

Course Prefix: BIO 139 Sections J O E 1, J O E 2

Course Title: Human Anatomy and Physiology II

Credit Hours: 4

Prerequisites: BIO 137

Division: Natural Sciences

Department: Biological Sciences

Instructor: Robin L. Cooper Email: RLCOOP1@uky.edu
Office hours: By appointment. Prior or after lecture would work well.
(24 hour answering machine) 859-559-7600

**E-mail address
and web address** RLCOOP1@uky.edu ;
WEB
<http://web.as.uky.edu/Biology/faculty/cooper/BCTC/teachingBio139Fall2014.html>

Office Hours: Tu & Th before or after class (5:30-6:45 PM). After class 6:45 to 7:15 or later if you are waiting in line.

Lab instructors : J0E1 is Maggie Murphy; J0E2 is Danielle Lyons

**Biology
Coordinator:** Ms. Rebecca McCane, Rm. 234 A OB, Phone: 246-6487

**Course
Coordinator:** Dr. Molly Frisbie, Rm. 306C OB, Phone: 246 - 6469

**Biology
Secretary:** Ms. Phyllis Mulcahy,
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Dean:** Tammy Liles, Rm. 234 K OB, Phone: 246-6449

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Phone: 246-6445

SYLLABUS AND COURSE OBJECTIVES

BIO 139 COURSE DESCRIPTION:

The second semester continues the study of the interrelationships of organ systems, including the endocrine, reproductive, cardiovascular, lymphatic, digestive, respiratory, and urinary systems. Lecture: 3 hours. Laboratory: 2 hours. Prerequisites: BIO 137.

GENERAL EDUCATION COMPETENCIES:

- A. Knowledge of human cultures and the physical and natural worlds through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts.
- B. Intellectual and practical skills, including
- inquiry and analysis
 - critical and creative thinking
 - written and oral communication
 - quantitative literacy
 - information literacy
 - teamwork and problem solving
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- C. Personal and social responsibility, including
- civic knowledge and engagement (local and global)
 - intercultural knowledge and competence
 - ethical reasoning and action
 - foundations and skills for lifelong learning
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- D. Integrative and applied learning, including synthesis and advanced accomplishment across general and specialized skills.

STUDENT LEARNING OUTCOMES FOR NATURAL SCIENCES:

In BIO 139, students will learn to:

1. **Demonstrate an understanding of the methods of science inquiry** (Gen Ed Comp A and B):

Course objective: Use anatomical and physiological terminology to comprehend and communicate information on body structure and function.

2. **Explain basic concepts and principles in one or more of the sciences** (Gen Ed Comp A and B):

Course Objective: Explain the interrelationships between organ systems and physiological processes.

Course Objective: Recognize the complimentary relationship of structure and function and describe the basic metabolic processes of the organ systems.

3. **Apply scientific principles to interpret and make predictions in one or more of the sciences** (Gen Ed Comp A, B and D):

Course Objective: Explain basic principles of inorganic and organic chemistry as they apply to physiological processes.

Course Objective: Explain the major homeostatic mechanisms utilized in each body system in response to internal and external environmental changes.

4. **Explain how scientific principles relate to issues of personal and/or public importance** (Gen Ed Comp A, B, C and D):

Course Objective: Explain the physiological and anatomical mechanisms of common dysfunction.

Required text: Human Anatomy & Physiology, ninth edition

Author: Marieb

CD Rom materials must be purchased with the textbook

Other Educational Materials:

Required: #2 lead pencils for exams (note that pencils WILL NOT be provided)

~~Required: Lecture Outlines purchased at KENNEDY'S BOOKSTORE~~ NOT for our sections

Required: 5 Scantron Sheets Form # 886-E

Optional: Small cassette tape recorder to record lectures

COUSE REQUIREMENTS, EVALUATION PROCEDURES, POLICIES:

Your grade will be based on the following: 4 Exams = 100 pts./exam

1 Comprehensive Final = 200 pts.

Quizzes/Worksheets/Assignments = 50-70 points (drop lowest 2 quizzes)

EXAMS:

1. There will be 4 exams given during the semester. Each exam is worth 100 points. Exams will be based upon material presented in class and your reading of the text. Exam questions may be multiple choice, short answer, essay, matching, or diagram identification.

2. Exams will not be returned but will be available in my office for review or during office hours before and after class if arrangements are made. Students are strongly encouraged to meet with me after each exam to review material that was missed on that exam.

3. In addition to the 4 exams given during the semester, there will be a comprehensive Final exam worth 200 points.

QUIZZES:

Quizzes will be announced in the lecture before they are given.

Quizzes will be given promptly at the beginning of class. If a student is late and the quiz has been distributed, the student will not be permitted to take the quiz. There will be NO Make-ups for quizzes except for an excused absence (see below). If an excused absence cannot be presented, then a zero will be given for that quiz.

WORKSHEETS/ASSIGNMENTS /CRITICAL THINKING EXERCISES will be completed either in class or assigned as homework. These will include material presented in lecture, material from your textbook and CD-ROM exercises. Since many of these assignments will include group activities or in-class participation, they are not feasible to makeup.

The lecture portion of the course is worth 75% of your final grade and the laboratory portion accounts for the remaining 25%.

A student must pass both the lecture and lab sections of the course to receive credit for BIO 139.

The Final grade will be assigned according to the following scale.

| <u>Grade</u> | <u>%</u> |
|--------------|----------|
| A | 90- 100 |
| B | 80- 89 |
| C | 70- 79 |
| D | 60- 69 |
| E | < 60 |

CLASS ATTENDANCE

Class attendance is required. This course will be very difficult to pass if you fail to come to class. If a student has excused absences in excess of one-fifth of the class contact hours for that course (6 classes), the instructor will either require the student withdraw or take an "E" in the course".

Excused Absences

- Illness of the student or serious illness or death of a member of the student's immediate family
- College sponsored or approved trips

- Major religious holidays - instructor must be notified no later than the last day of the drop period.

***** All excused absences require written documentation.**

CLASSROOM PARTICIPATION IS EXPECTED.

MAKEUP EXAMS

Makeup exams will be given only for excused absences. Makeup exams will only be given on scheduled dates. Student needs to consult with instructor (Dr. Robin Cooper, RLCOOP1@uky.edu)

If the instructor is not notified within 24 hours of the regularly scheduled exam that he/she missed miss, a zero will be given for that exam regardless of the excuse.

WITHDRAWALS:

The last day for a student to officially withdraw from the course at their discretion without the instructor's signature and receive a "W" grade is **March 10**. **Student's may withdraw from the course with the instructors permission up until the second LAB EXAM . After that date a student MAY NOT withdraw from the course.**

REASONABLE ACCOMMODATION:

If you have a need that requires special accommodation or assistance, please inform the instructor as soon as possible. Students with disabilities that require accommodations need to contact Disability Support Services (DSS) Center: 103 Oswald Building. Phone: [\(859\) 246-6534](tel:8592466534), [\(859\) 246-6753](tel:8592466753) TTY or [\(866\) 774-4872 extension 6728](tel:8667744872) (Toll Free). Email: BL_DSS@kctcs.edu. Website: www.bluegrass.kctcs.edu/DSS.

STUDENT CONDUCT:

All rules and regulations set forth in the current edition of the KCTCS Code of Student Conduct will be followed in this course. This document is available on the web at http://www.kctcs.edu/Students/Admissions/Academic_Policies/Code_of_Student_Conduct.aspx

ADDITIONAL PROCEDURES/POLICIES:

It is strongly recommended that students receiving less than a "C" in BIO 137 should not enroll in BIO 139.

WEATHER POLICY:

Inclement weather or other emergencies may cause BCTC classes to be cancelled or delayed. If classes are **delayed**, you are to report to school at the announced time and attend the class where you would NORMALLY be at that time. Information about cancelled or delayed classes will be posted on the BCTC website. Many local radio and television stations will also carry announcements. Instructors may send email messages and/or Blackboard announcements regarding assignments for a class that was cancelled. Students are responsible for checking these sources for such messages.

**If this class is delayed or cancelled, I will post an announcement on Blackboard and send out an email.

CHEATING :

Cheating will absolutely NOT be tolerated! If you are caught cheating you will be given an "E" for the course. If any cell phones and any electronic devices are in sight during the exam, the student will assume to be cheating and a 0 will be given for that quiz/exam.

LATENESS:

You need to be on time for class. Class begins promptly at 9:30. Students who are late to class more than twice will be marked absent for each time they are late.

USE OF CELL PHONES:

Use of cell phones are **prohibited during** class. Cell phones must be kept in purse or backpack during class. Use of a cell phone during class is counted as an absence.

LEAVING DURING THE MIDDLE OF CLASS:

Please do not get up in the middle of class and then return later to the classroom unless it is an emergency. Take care of all your hygiene needs before class.

If you need to leave class early, please inform me at the beginning of class

STUDENT EMAIL ACCOUNT

Students are required to have an active KCTCS email account. Information about class will be communicated through a student's email.

If you receive grants and/or loans to pay for this class, you should be aware that withdrawing from or failing this class may affect your future financial aid eligibility. You should review the Financial Aid Satisfactory Academic Progress (SAP) policy for additional information. Contact the Financial Aid Office for a copy of the SAP policy. You are expected to attend class and have the required textbook(s) even though you have not received your financial aid or you may have an appeal in process.

*** The course content may be modified as required at my discretion (eg. change of pace, addition/omission of chapters, and change in number of exams).

Tentative Course Outline

| <u>Date</u> | <u>Topic</u> | <u>Chapter</u> |
|----------------------------------|--|----------------|
| Aug 19 (Tu), 21 (Th) | Cardiovascular System: Blood | 17 |
| 26 (Tu), 28 (Th) | Cardiovascular System: Blood/heart | 17+ 18 |
| Sept 2 (Tu), 4 (Th) | Cardiovascular System: Heart (Sept 4 th might only be a prerecorded lecture) I will be present | 18 |
| 9 (Tu), 11 (Th) | Cardiovascular System: Physiology (Th) EXAM I – Chpts. 17-19 ; | 18 +19 |
| 16 (Tu), 18 (Th) | Respiratory System (Sept 16 will be a prerecorded lecture) DATE update. NO CLASS ON 16 th . Recorded lecture will be posted on web page | 22 |
| 23 (Tu), 25 (Th) | Respiratory System | 22 |
| Sept/ Oct 30 (Tu), Oct 2 (Th) | Lymphatic System | 20 |
| 7 (Tu), 9 (Th) | Immune System | 21 |
| 14 (T), 16 (Th) | (Tu) Fall Break (Th) EXAM II (Chapters 20, 21, 22) | 25 |
| 21 (T), 23 (Th) | Urinary System Fluid and Electrolyte | 25 + 26 |
| 28(T), 30 (Th) | Fluid and Electrolyte | 26 |
| Nov 4 (T), 6 (Th) | Endocrine (Th) Exam III (Chapters 25, 26, 16 start) | 16 |
| 11 (T), 13 (Th) | Endocrine | 27 |
| 18 (T), 20 (Th) | Male Reproduction (Nov. 18 th might only be a prerecorded lecture) | |
| 25 (T), 27 (Th) | Female Reproduction, (Th-Thanksgiving) | 16 |
| Dec 2 (Tu), 4 (Th) | Female Reproduction, (Th) EXAM IV (Chapter 27, 16) | 16 |

FINAL EXAMS

SECTION J0E1, J0E2 – December 11, 5:00 PM