Mayland Community College
Welcomes You To:

BIO 163.51
Basic Anatomy & Physiology
Credit Hours: 5 Contact Hours: 6

Fall 2007

Course Description

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

Prerequisites: RED 090 **Corequisites:** None

Instructor Information

Instructor:	Woody McKay
Office Location:	Room 315, Mountain Heritage High School
Telephone Number:	828-682-6103
E-mail Address:	wmckay@yanceync.net
Office Hours:	before or after school by arrangement, planning 1:30-3:10 daily

Course Information

Course Meeting Days: Monday thru Friday
Class Time: 12:00-1:30
Class Location: Room 314, Science Wing, Mountain Heritage High School

Required Text(s): Holes, *Essentials of Human Anatomy,* Eighth Edition
McGraw Hill, New York, NY, 2003**.**

LRC Resources: Computers for interactive web sites.

Course Objectives/Competencies:
The primary reason for teaching Basic Anatomy & Physiology in the General Education curriculum is to increase the student's knowledge of human body systems and their interrelatedness. Factual knowledge is important and necessary, but you must also learn to apply this knowledge and think critically — to analyze, synthesize, and reason. Therefore, upon successful completion of this course, you will be able to:

1. Understand and use a vocabulary of scientific terminology used in anatomy and physiology.
2. Demonstrate an understanding of cell structure and function.
3. Demonstrate an understanding of tissue structure and function.
4. Demonstrate an understanding of organ structure and function.
5. Locate anatomical structures.
6. Explain physiological functions of the human body systems and their interrelatedness.

This course directly supports the mission statement and competencies for the General Ed core courses in the Division of Arts and Sciences:

Mayland Community College's General Education core courses will provide the essential body of knowledge and skills that enable all degree-level students to perform competently as employees and as contributing members of society.

Graduates of all degree programs at Mayland Community College will have completed the general education core. That core encompasses the essential knowledge and skills that enable all degree-level students to perform competently as employees and as contributing members of society. Upon completion of the general education core, students will be able to demonstrate the following:

- Effective communication in speaking and listening situations needed for college, personal, and work successes
- Effective communication in writing and reading situations needed for college, personal, and work successes
- Logical, critical, and creative thinking to evaluate evidence and reach a conclusion
- Application of basic computer use skills
- Application of fundamental math skills
- Basic awareness of the diversity of various world groups from both historical and contemporary contexts

Expectations:

Students will take **personal responsibility** for learning in this course. This will be accomplished by:

- attending all class meetings unless absence is unavoidable;
- spending necessary study time to prepare for class, tests, homework, and projects
- completing reading assignments and assigned learning objectives prior to class;
- participating in class activities and laboratory exercises;
- demonstrating college-level effort and behavior;
- doing your own work – plagiarism and cheating are unacceptable;
- completing all exams on their scheduled days.

The Instructor will take personal responsibility for:

- creating a classroom atmosphere conducive to learning;
- preparing lectures and labs that will assist in the successful completion of the objectives;
- exhibiting a positive attitude and providing words of encouragement.

Attendance Policy/Tardiness/Make-Up Work:

Since you will be applying material presented in class and lab your assignments will lack the integration of class material if you do not attend. With this in mind, you are expected to attend all class and lab sessions. If an absence cannot be avoided, it is your responsibility to contact me regarding the reason for the absence and missed work.

If a student has not been in contact with the instructor and has not attended class for a consecutive two-week period an administrative withdrawal will be submitted by the instructor.

Grading Criteria/Tests/Projects:

Tests: Tests will consist of objective questions that will engage more than your memorization skills. You will take eight lecture tests and one final comprehensive exam consisting of multiple-choice, matching, short answer discuss questions, and labeling/identifying anatomical structures. Lab and study guide exercises will be due upon request. Grades will be posted on LEO and graded tests will be returned within one week of the exam date. To help prepare for tests, review the chapter objectives, summary and key terms, and answer all questions at the end of each chapter and in the study guide included in the text.

Tests must be made up before the weekend following the absence.

Grading: Your final grade will be based on an average of the total points earned as follows:

Tests = 60%
Classwork/Homework = 20%

Vocabulary tests = 20%

The second nine weeks will add a comphrehensive final exam and vocab test worth 20% and a disease project worth 15%. This will reduce the test portion of the grade to 45% and the classwork and vocabulary portions to 10%.

Grading Scale:

A = 93 - 100
B = 85 - 92
C = 77 - 84
D = 70 - 76
F = below 70

Academic Standards/Student Expectations/Ethics:
You are expected to conduct yourself according to the **Mountain Heritage High School STUDENT CODE OF CONDUCT.**

Course Outline

Wk #	Dates	Text	Test	Lab Exercise
1	Aug 13-17	1st day: syllabus, lab safety & study tips. Ch 1: Human Body	Ch 1	1) Language of Anatomy
2	Aug 20-24	Ch 2: Basic Chemistry	Ch 2	2) pH
3	Aug 27-31	Ch 3: Cells Ch 4: Cell metabolism	Ch 3 Ch 4	
4	Sept 4-7	Ch 5: Tissues	Ch 5	
5	Sept 10-14	Ch 6: Skin Ch 7: Bones	Ch 6	
6	Sept 17-21	Ch 7 Bones, cont. Ch 8: Muscles	Ch 7 Ch 8	3) Skeleton
7	Sept 24-27	Ch 9: Nervous System	Ch 9	4) Muscles
8	Oct 1-5	Ch 10: Special Senses	Ch 10	
9	Oct 8-12	Ch 11: Endocrine	Ch11	
10	Oct 16-19	Ch 12: Blood Ch 14: Immunity and Lymphatic	Ch 12 Ch14	5) Special Senses
11	Oct 22-26	Ch 13: Cardiovascular	Ch 13	6) ABO Typing
12	Oct 29-Nov 2	Ch 15: Digestive	Ch 15	
13	Nov 5-9	Ch 16: Respiratory	Ch 16	
14	Nov 13-16	Ch 17 Urinary Ch 18: Water and Electrolyte Balance	Ch 17 Ch 18	
15	Nov 19-21	Ch 19: Reproductive		
16	Nov 26-30	Ch 19: Reproductive, cont. Ch 20: Growth and Development	Ch 19 Ch 20	7) Urinalysis
17	Dec 3-7	Cat Dissection		

18	Dec 10-15	**Review and Final Exam (comphrehensive)**		

***Note: All schedules are tentative and may change as conditions warrant.**