

MAYLAND COMMUNITY COLLEGE

BIO 166.10

Anatomy & Physiology II

Credit Hours: 4 Contact Hours: 6

Summer 2007

Course Description

This course is the second of a two-course sequence, which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes, which maintain homeostasis. Upon completion students should be able to demonstrate an in-depth understanding of the principles of anatomy and physiology and their interrelationships of all body systems. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

Prerequisites: BIO 165

Corequisites: None

Instructor Information

Instructor:	Janet Colvin
Office Location:	Room 266
Telephone Number:	828-765-7351, ext 408
E-mail Address:	jbcolvin@cc.mayland.edu
Office Hours:	Monday – Thursday: 8:00 - 9:00 am Monday & Wednesday: 12:00 - 3:00 pm

Course Information

Course Meeting Days: Monday - Thursday

Class Time: 9:00 – 11:50 am

Class Location: Room 264, Administration Building

Required Text(s): Saladin, *Anatomy & Physiology*, Third Edition, McGraw Hill, New York NY, 2004.
Homen & Saladin, *Anatomy & Physiology Student Study Guide*, Third Edition,
McGraw Hill, New York NY, 2004.
Anatomy & Physiology Revealed, CD-ROM set, McGraw Hill, New York, NY, 2004.

LRC Resources: Computers for textbook web site and Anatomy & Physiology Revealed CD-ROM set.

Course Objectives/Competencies:

The primary reason for teaching Anatomy and 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 the student must also learn to apply this knowledge and think critically — to analyze, synthesize and reason. Therefore, upon successful completion of this course, the student will be able to:

- understand and use a vocabulary of scientific terminology used in anatomy and physiology;
- demonstrate an understanding of cell, tissue, and organ structure and function;
- comprehend the role of the various organs forming organ systems;
- demonstrate an understanding of: the endocrine system, blood composition and function, the cardiovascular system, the lymphatic system, the immune system and immunity, the respiratory system, the digestive system and nutrition, the urinary system, and fluid balance, the reproductive system, human development and heredity.

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 two hours of study for each hour in class (6 hours of class plus 12 hours of study each week);
- completing reading assignments prior to class;
- completing assigned chapter 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 memorization skills. There will be six tests and a comprehensive final consisting of multiple choice, matching, labeling, and short answer questions. Grades will be posted on LEO and test papers will be returned within one week of the test date. To prepare for tests, review each of the assigned chapter objectives, answer all questions at the end of each chapter and in the study guide, and review the practice quizzes on your textbook web site.

Make-up tests: Make-up exams will not be given. If a student misses one exam, the final comprehensive exam will count twice. If a student misses any subsequent exams, a zero will be recorded for each missed exam.

Grading: Your final grade will be determined on the following basis:

Six tests	(100 points each)	= 600 points
Study Guide exercises	(8 points each)	= 100 points
Laboratory exercises	(14 points each)	= 100 points
<u>Comprehensive Final Exam</u>		<u>= 100 points</u>
		900 points

Your total points/Total points = your final grade

Grading Scale:

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

Academic Standards/Student Expectations/Ethics:

MAYLAND COMMUNITY COLLEGE STUDENT CODE OF CONDUCT

Rule 5: Academic Dishonesty, Cheating, Forgery, and Related Offenses

Any of the following actions is considered academic cheating, including, but not limited to:

1. copying answers from someone else during an exam.
2. using textbook, notes, or "cheat sheets" for obtaining answers during exams.
3. giving answers to someone else during an exam.

Any student discovered cheating will fail the course and be reported to the Vice President of Student Services.

The right of due process will not be denied. If the student wishes to contest any accusation of failure to meet academic standards, they are afforded the due process options listed in the Student Handbook.

Rule 6: Disruption and Disorderly Conduct

A student shall not engage directly or indirectly in disorderly conduct, which is intended to provoke violent retaliation or cause a breach of peace, which disrupts, disturbs, or interferes with the normal routine activities or teaching of students, or with the peace, order, or discipline on Mayland Community College grounds.

Any of the following actions is considered class disruption:

- Vocalization of or exhibition of obvious body language displaying displeasure with class policy or routine;
- Vocalization of or exhibition of obvious body language displaying displeasure during an exam.

Disciplinary Process During Class Lecture or Lab: Temporary suspension from class until the Vice President of Student Services can investigate the student's(s') conduct.

Disciplinary Process During Exam: A zero recorded for that exam and temporary suspension from class until the Vice President of Student Services can investigate the student's(s') conduct.

Inclement Weather Procedures:

In the event of inclement weather, the policy outlined in the MCC Student Catalog will be followed. Students are expected to refer to the course outline included in this syllabus for assignments, and be prepared for the next scheduled class meeting. For Option B class time will be: 10:45 – 12:45 am.

Withdrawal Dates:

Thursday, June 21 is the end of Unconditional Withdrawal.

Monday, July 16 is the end of Conditional Withdrawal.

Disclaimer: While I have attempted to be as thorough as possible with this syllabus, actual class procedures may vary to suit the needs of this particular group of students.

Any student requesting special accommodations for this course due to a disability should apply for services through the SOAR Office or the Counseling Center, which will document the disability. A counselor will then help determine which accommodations, if any, the student needs for success in this course.

Course Outline

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Wk #	Dates	Text	Study Guide	Lab Exercise
1	June 4-7	1st day: syllabus & lab safety Ch 17: Endocrine (review) Ch 18: Blood Ch 21: Lymphatics & Immunity	(Ch 17) Ch 18 Ch 21	1) Endocrine Physiology
2	June 11-14	Ch 21: Immunity (cont) Test # 1: Chapters 17, 18 & 21 (Tues, 6/12) Ch 19: Heart	Ch 19	2) Blood Analysis
3	June 18-21	Ch 19: Heart (cont) Ch 20: Blood Vessels Test # 2: Chapters 19 & 20 (Th, 6/21)	Ch 20	3) Cardiovascular Dynamics 4) BP & Pulse
4	June 25-28	Ch 22: Respiratory Test # 3: chapter 22 (6/28)	Ch 22	5) Respiratory Mechanics
	July 2-6	Summer Break – No Classes !!!		
5	July 9-12	Ch 23: Urinary Ch 24: Water, Electrolyte & Acid-Base Balance	Ch 23 Ch 24	6) Renal Physiology
6	July 16-19	Ch 24: Acid-Base Balance (cont) Test # 4: Chapters 23 & 24 (Tues, 7/17) Ch 25: Digestion	Ch 25 Ch 26	7) Acid-Base Balance
7	July 23-26	Ch 26: Nutrition Test # 5: Chapters 25&26 (Wed, 7/25) Ch 27: Male Reproductive Ch 28: Female Reproductive	Ch 27 Ch 28	
8	July 30- Aug 2	Test # 6: Chapters 27 & 28 (Mon, 7/30) Ch 29: Development Review for Final Final Exam (comprehensive) (Th, 8/2)	Ch 29	

Note: This is a tentative schedule; course outline is subject to change as conditions warrant.