

**MAYLAND COMMUNITY COLLEGE**

**Welcomes You To:**

**BIO 165.20**

**Anatomy & Physiology I**

**Credit Hours: 4    Contact Hours: 6**

**FALL 2007**

**Course Description**

This course is the first 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. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**Prerequisites:** RED 090 and MAT 070 and BIO 111 or BIO 163

**Corequisites:** MAT 080

**Instructor Information**

<b>Instructor:</b>	Janet Colvin
<b>Office Location:</b>	Room 266
<b>Telephone Number:</b>	828-765-7351, ext 408
<b>E-mail Address:</b>	jbcolvin@cc.mayland.edu
<b>Office Hours:</b>	Monday: 3:00 – 4:00 pm Tuesday & Thursday: 8:00 am - 11:00 am

**Course Information**

**Course Meeting Days:** Monday & Wednesday

**Class Time:** 5:00 – 7:50 PM

**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*, Fourth 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 human body orientation, tissues, the integumentary system, bones & skeletal tissues, the skeleton, muscles & muscle tissue, the muscular system, fundamentals of the nervous system & nervous tissue, the central nervous system, the peripheral nervous system, special senses, & reflex activity, the autonomic nervous system and the endocrine system.

**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 equals 18 total hours);
- 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;
- 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, fill-in-the-blank, 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 the chapter review of key concepts, answer all questions at the end of each chapter and in the study guide, do the self-test on the A&P Revealed CDs for applicable systems, and review the practice quizzes on your textbook web site.

**There are no makeup tests.**

**If one test is missed the final comprehensive exam will count twice.**

**If additional tests are missed, a grade of zero(s) will be recorded for each.**

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

Tests	(100 points each)	= 600 points
Study Guide Exercises	(5.5 points each)	= 100 points
Lab Exercises	(10 pts each)	= 100 points
<u>Comprehensive Final Exam</u>		<u>= 100 points</u>
		900 Total 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, if night classes meet, class will meet 5:00 – 7:50 pm.

**Withdrawal Dates:**

**Tuesday, September 25 is the end of Unconditional Withdrawal.**

**Thursday, November 1 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

Wk #	Dates	Text	Study Guide	Lab Exercise
1	Aug 20 & 22	<b>1st day:</b> syllabus, lab safety & study tips. Ch 1: Major Themes of A&P Atlas A: Orientation to Human Anatomy	Ch 1 Atlas A	
2	Aug 27 & 29	Ch 2: Chemistry of Life Lab	Ch 2	1) The Cell -- Membrane Transport
3	Sept 3 & 5	<b>Labor Day: College Closed</b> Ch 3: Cellular Form & Function	Ch 3	
4	Sept 10 & 12	<b>Test # 1:</b> Ch 1- 3 (9/10) Ch 4: Genetics & Cellular Function	Ch 4	
5	Sept 17 & 19	Ch 5: Histology Ch 6: Integumentary System	Ch 5 Ch 6	
6	Sept 24 & 26	Ch 6: Integumentary System, cont <b>Test # 2:</b> Ch 4 - 6 (9/26)		
7	Oct 1 & 3	Ch 7: Bone Tissue Ch 8: Skeletal System	Ch 7 Ch 8	
8	Oct 8 & 10	<b>Fall Break: No Class 10/8-9</b> Ch 8: Skeletal System, cont Lab		2) Skeleton
9	Oct 15 & 17	Ch 9: Joints	Ch 9	
10	Oct 22 & 24	<b>Test # 3:</b> Ch 7- 9 (10/16) Ch 10: Muscular System	Ch 10	
11	Oct 29 & 31	Atlas B: Surface Anatomy Lab Ch 11: Muscular Tissue	Ch 11	3) Skeletal Muscle Physiology
12	Nov 5 & 7	<b>Test # 4:</b> Ch 10 – 11 (11/5) Ch 12: Nervous Tissue	Ch 12	
13	Nov 12 & 14	<b>Veterans Day: College closed (11/12)</b> Ch 13: Spinal Cord & Spinal Nerves	Ch 13	
14	Nov 19 & 21	Ch 14: Brain & Cranial Nerves Wed 11/21: No night classes	Ch 14	
15	Nov 26 & 28	<b>Test # 5:</b> Ch 12 – 14 (11/26) Lab Ch 15: Autonomic Nervous System	Ch 15	4) Neuro- physiology
16	Dec 3 & 5	Ch 16: Sense Organs	Ch 16	
17	Dec 10, 12 & 14	<b>Test # 6:</b> Ch 15-16 (12/10) Ch 17: Endocrine System	Ch 17	
18	Dec 17	<b>Final Exam</b> (Comprehensive) (12/17)		

**Note: This is a tentative schedule. Course outline is subject to change as conditions warrant.**