**WAYLAND BAPTIST UNIVERSITY**

**WBUonline**

**SCHOOL OF MATHEMATICS & SCIENCES**

# WAYLAND MISSION STATEMENT:

Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

# COURSE NO. & TITLE:

BIOL2408-CMP2018VC01;

Fundamentals of Human Anatomy & Physiology I

# TERM:

SPRING 2019

# INSTRUCTOR:

Dr. Herb Grover

Phone or text: (806) 292 2082

Email Address: Herbert.grover@wayland.wbu.edu

Office: online

Office Hours: as needed.

# CATALOG DESCRIPTION:

Designed for students preparing for application to nursing school or those allied health programs accepting lower-level anatomy and physiology as prerequisites. Topics covered in semester 1 of the two-semester sequence will include the introductory concepts structure and function of the human body and its major organs; the anatomy and physiology of the skeletal, muscular, and neural systems; the basic interrelationships involved in these organ systems as found in a normal human body; and representative disease processes affecting the normal function of these body systems. $90 fee.

Students who have successfully completed a higher-level human anatomy and physiology course may not take this course for credit toward their degree.

# PREREQUISITES:

BIOL1400 or BIOL1401, CHEM1400 or CHEM1401, or instructor approval.

# REQUIRED TEXTBOOK:

Visual Anatomy & Physiology with Mastering A&P Access Card

Martini, et.al.; 3rd ed.; Pearson; ISBN: 978-0134394695

Hardback, paper, etext are all fine**.**

You must either:

1. Purchase a book with access to Mastering A&P (this would be a new text specifically identified with access)

2. Or you can buy a used/new textbook and purchase the access online via the Pearson site. It is around $40.

(The Pearson site also has etext books [not required] available for purchase).

# MASTERING A&P PEARSON WEBSITE

Do not use Chrome to access this website. Chrome no longer supports some of the plugins needed to make the interactions work. So Firefox or IE are best.

http://www.pearsonmylabandmastering.com/northamerica/masteringaandp/students/get-registered

# MASTERING COURSE ID

MAPGROVER0287512

# COURSE WEBSITE

A course website has been established on WBU’s Blackboard server. Each student is REQUIRED to establish an active account for this website and to log on to BB regularly (several times a week) for posted lecture notes, messages, assignments, handouts, and quizzes.

# COURSE COMMUNICATION POLICY

Wayland’s email address is the official method of communication between instructors and students taking courses through Wayland Baptist University. Students are REQUIRED to establish and activate their Wayland email account. Instructors reserve the right to deny email from other sources

# COURSE OUTCOME COMPETENCIES:

The students will be able to:

1. Explain the integrated function of the interdependent organ systems as well as the operation of these systems independently.
2. Use correct and useful, working vocabulary within the disciplines of anatomy and physiology.
3. Identify through integrated lectures and laboratory exercises, the basic structures mechanisms in homeostasis and to have a knowledge base of how disturbances in homeostatic mechanisms produce disease(s).

# COURSE WORK AND ACTIVITIES

**Quizzes and Lecture exams** will cover reading material and supplemental resource materials. Labs will be used to identify anatomical structures and explore the physiological concepts associated with the topic of the week.

**Lecture Exams** will typically open on a Sunday and remain open for one week. Exact dates when exams open and close will be announced on Bb.

**Lab exams** will cover lab materials and activities. They will include histology slides, models, and cadaver figures from Mastering A&P. Opening and closing dates of lab exams will be announced on Bb.

**Discussion boards** are places for expanding concepts, exploring tangents of topics, and asking and answering questions.

**The comprehensive final** will include all lecture and lab materials from the course. There is no review given, but quizzes, discussions, and Mastering A&P review materials should help in preparation. Anatomy builds on previous foundation of materials. Materials are constantly reviewed as we proceed through the course.

**Essentially each week of work** will include readings from the text, viewing supplemental materials, doing in class activities, Mastering A&P lab activities and exercises (some with a report), and quizzes on text material.

# ATTENDANCE POLICY

*“The University expects students to make class attendance a priority.”* You should note that failure to attend class will affect your ability to perform well on exams. Students must have good class attendance to be successful in this course.

1. The student is required to attend class online. This is a physical presence in the Blackboard classroom or Mastering classroom. This is recorded and date/time stamped in Blackboard. Discussions, quizzes, supplemental material review, and class activities all count towards attendance. You should be in the classroom a minimum of 4 hours for attendance purposes.

2. Students missing more than 25% of scheduled classes may be dropped  
 from the course.

3. ALL absences (including for University sponsored events) must be   
 discussed with the instructor BEFORE the absence or they will be   
 unexcused.

4. Unexcused absences can NOT be made-up and a grade of 0% will be recorded for that activity.

5. No make-up Lecture Exams will be given. ***One*** missed lecture exam can be taken during week 11 to replace the zero.

6. Students are responsible for all material covered in class (lecture and laboratory), as well as all assigned work (textbook reading, study problems, homework exercises, etc…).

7. This is a lab course. Students who do not complete at least 50% of the lab assignments with a grade of 70 or better will automatically fail the course.

STATEMENT ON PLAGIARISM AND ACADEMIC DISHONESTY**:**

Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

DISABILITY STATEMENT:

In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability may be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university.  The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765.  Documentation of a disability must accompany any request for accommodations.

If you would like to see certain types of materials in the course such as videos, audio, or other images that are not currently available, please let me know. I will try to include these as requested

# COURSE REQUIREMENTS AND GRADING CRITERIA

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

Students should allow a very minimum of 4-8 hours per week for reading, reviewing, studying, and homework exercising. Your course grade will be determined based on the number of points you earn on lecture exams, laboratory reports, laboratory exams, discussions and quizzes:

**COURSE EVALUATION AND GRADING:**

The final grade in the course will be derived as follows:

Quizzes - 8%

4 Lecture exams (~every two weeks) 24%

4 laboratory exams 24%

Lab reports and class activities 24%

Discussion Boards 8%

Final Comprehensive exam - proctored 12%

University grading system:

**A** 90-100

**B** 80-89

**C** 70-79

**D** 60-69

**F** below 60

**I** incomplete

**W** withdrawal

# IMPORTANT DATES:

Feb 25 Spring term begins  
Mar 11-15 SPRING BREAK

Apr 26 Last day to drop course w/ “W” (no tuition refund)  
May 3 Last day to drop course w/ “WP/WF”

May 18 Last day of the term

# TENTATIVE COURSE SCHEDULE:

|  | Topic | Chapters | Assignments/Labs | Due Dates |
| --- | --- | --- | --- | --- |
| **Week 1** | Introduction  Human Body - An Orientation | Chapter 1 | Mastering A&P |  |
| **Week 2** | Basic Chemistry | Chapter 2 |  |  |
| **Week 3** | Cells and Tissue | Chapter 3 and 4  Cell structure, cell organelles, body tissues.  What the tissue looks like and how it relates to function. | Dr. T videos  IP fluid balance  Mastering PAL Histology (tissues)  Self-quiz |  |
|  | Lecture Exam 1 | Chapters 1, 2, 3, and 4 | **See Bb for opening/closing date.** |  |
|  | Lab Exam 1 | Cells and Tissues | **See Bb for opening/closing date** |  |
| **Week 4** | Integumentary System  and Body Membranes | Chapter 5 | videos  Mastering PAL  Skin Model  Histology (Integumentary)  Self Quiz |  |
| **Week 5** | Skeletal System  Bone physiology  Axial Skeleton | Chapter 6 and 7 | Video’s  Bone models  Mastering PAL 3.0  Skull, Axial Skeleton  Video assignment |  |
| **Week 6** | Skeletal System  Appendicular Skeleton  Joints | Chapter 7 and 8 | Whack a bone game |  |
|  | Lecture Exam 2 | Chapters 5, 6 and 7 | **See Bb for opening/closing date** |  |
|  | Lab Exam 2 | Skin, models, Bones (both articulated and disarticulated) and joints | **See Bb for opening/closing date** |  |
| **Week 7** | Muscular System  Muscle physiology  Muscle action  Head, Neck, Trunk | Chapters 9 and 10 | Video’s  Muscle models  Mastering PAL 3.0  Poke a muscle game |  |
| **Week 8** | Muscular System  Limbs | Chapters 9 and 10 | same as above |  |
|  | Lecture Exam 3 | Chapters 9 and 10 | **See Bb for opening/closing date** |  |
|  | Lab Exam 3 | Muscle cells, models, Neruomuscular junctions, muscle names and locations | **See Bb for opening/closing date** |  |
| **Week 9** | Nervous System  Nervous tissue  Nervous physiology  Brain structure | Chapters 11  12.1-12.7  13.1-13.13  14.1, 14.2, 14.6 |  |  |
| **Week 10** | Special Senses | Chapter 15 |  |  |
|  | Lecture Exam 4 | Chapters 11-15 (parts as indicated during weeks | **See Bb for opening/closing date** |  |
|  | Lab Exam 4 | Nervous tissue, models, eye, ear, tongue, nose | **See Bb for opening/closing date** |  |
| **Week 11** |  | **Final Proctored Exam – Comprehensive** | Open Monday-Saturday | Nov 4 |