Course Summary

Description

Course Description: This is the second of a two-course sequence in human anatomy & physiology. This intensive course is intended to prepare students for careers in the health sciences (sports medicine, physical therapy, EMS, nursing, physician assistant, etc.). Lessons and laboratory exercises focus on homeostasis, metabolism, acid-base balance, growth and development, and the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems. Students are also required to successfully complete a cumulative assessment of anatomy & physiology objectives from both BIOL250 and BIOL251. Students must complete BIOL250 with a grade of C or better prior to enrolling in BIOL251. This course includes a hands-on laboratory component, and students are required to perform dissection of preserved animal specimens. Some of the laboratory activities require the use of glass or sharp laboratory instruments; therefore students must have a safe work area available to perform laboratory activities. Students must also have room temperature storage available in order to maintain laboratory materials and specimens through both BIOL250 and BIOL251. Refrigerated storage is not required. In addition, students must be able to document their laboratory work using still pictures and/or video. Lab material for this course will only be provided once. If you need replacement lab equipment for any reason or need to retake the course later, you will need to purchase your own lab refills. Prerequisite: BIOL250

Course Scope:

The two-course sequence in human anatomy and physiology provides the foundation for further study in all areas of human performance and healthcare. A working knowledge of both the structure (anatomy) and the function (physiology) of the human body is critical for providing effective counseling, care, or treatment of clients and patients. Others will entrust you with their care, and it is your professional obligation to both understand and be able to explain the underlying mechanisms for the procedures you perform.

This course takes a systems approach to learning anatomy and physiology. Chemistry, cell biology, genetics, and the structure of tissues are common to all of the organ systems of the body. We will use that foundation to discuss the anatomy and physiology of the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems as single, independent systems. As we progress through the course, we will relate how the individual organ systems work together to maintain homeostasis: The maintenance of a consistent environment within the body.

It is important to note that this is a science course, and not a course specific to any particular discipline. The content and assignments in this course were selected to develop both your foundational knowledge in anatomy and physiology, as well as your scientific literacy skills. The laboratory exercises included in this course provide you the opportunity to apply the knowledge contained in the lesson materials, develop your scientific inquiry skills, and produce products that demonstrate your knowledge of anatomy and physiology to others.
Objectives

After successfully completing this course, you will be able to

**CO-1** Identify the gross and microscopic structures of the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems.

**CO-2** Explain the normal physiological processes of the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems.

**CO-3** Explain the use of feedback loops to control the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems.

**CO-4** Explain the relationship between anatomical structures and physiological functions in the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems.

**CO-5** Explain the interrelationships within and between anatomical and physiological systems of the human body.

**CO-6** Explain the relationship between homeostatic imbalances of the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems and each of the following: Lifestyle decisions, disease, and injury.

**CO-7** Explain basic clinical assessment and laboratory procedures used to evaluate the physiological functions of the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems.

**CO-8** Interpret graphs of anatomical and physiological data.

Outline

**Week 1: Welcome to A&P II The Endocrine System**

**Learning Objectives**

CO-1
CO-2
CO-4
CO-5
CO-6
CO-7
CO-8

**Readings**

**Text Readings:**

Saladin, Chapter 17: The Endocrine System

APR, Module 8: Endocrine; Dissection & Histology

**Lab Activities:**

Lab Safety

Appendix: Good Lab Techniques

Introduction to the Fetal Pig

Lab 5: Tissues and Skin, Ex. 5 Introduction to the Fetal Pig
Lab 6: The Skeletal System, Ex. 11: Skeletal System of the Fetal Pig

Lab 7: The Muscular System, Ex. 9: Fetal Pig Dissection - Muscular System

Lab 8: The Nervous System, Ex. 9: Fetal Pig Dissection - Nervous System

Lab 9: The Endocrine System, Ex. 1: Microscopic Anatomy of the Endocrine System, Ex. 3: Fetal Pig Dissection - Endocrine System

Assignment

Introduction Forum
(due Sunday)

LearnSmart
Chapter 17

Assignment 1
Lab Safety Video

Week 2: Blood

Learning Objectives

CO-1
CO-2
CO-3
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

Text Readings:
Saladin, Chapter 18: The Circulatory System: Blood
APR, Module 9: Cardiovascular; Histology

Lab Activities:
Lab 10: Blood and Heart, Ex. 3: Microscopic Anatomy of Blood, Ex. 4: Blood Typing Experiment

Assignment

Week 2 Forum Q&A: Ch. 17-18
(due Wednesday)

LearnSmart
Chapter 18

Assignment 2
Lab Report 1: Dissection Video of Fetal Pig Skeletal, Muscular, Nervous, and Endocrine Systems

Week 3: The Heart
Learning Objectives

CO-1
CO-2
CO-3
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

Text Readings:

Saladin, Chapter 19: The Circulatory System: The Heart

APR, Module 9: Cardiovascular; Dissection & Histology

Lab Activities:

Lab 10: Blood and Heart, Ex. 6: Sheep Heart Dissection

Assignment

Week 3 Forum Q&A: Ch. 19
(due Wednesday)

LearnSmart
Chapter 19

Assignment 3
Lab Report 2: Blood Typing Lab

Week 4: The Blood Vessels

Learning Objectives

CO-1
CO-2
CO-3
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

Text Readings:

Saladin, Chapter 20: The Circulatory System: Blood Vessels and Circulation

APR, Module 9: Cardiovascular; Dissection & Histology

Lab Activities:

Lab 11: The Circulatory System, Ex. 1: Microscopic Examination of Blood Vessels, Ex. 5: Fetal Pig Dissection - The Circulatory System
Assignment

**Week 4 Forum** Q&A: Ch. 20  
(due Wednesday)

**LearnSmart**  
Chapter 20

**Unit Exam 1**  
BIOL250 review, Saladin, Chapters 17-19

**Week 5: The Lymphatic System**

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**Learning Objectives**

CO-1  
CO-2  
CO-4  
CO-5  
CO-6  
CO-7  
CO-8

**Readings**

**Text Readings:**

Saladin, Chapter 21: The Lymphatic and Immune Systems

APR, Module 10: Lymphatic; Dissection & Histology

**Lab Activities:**

Lab 12: The Lymphatic System and Immunity, Ex. 1: Examining the Microscopic Anatomy of the Lymphatic System, Ex. 3: Fetal Pig Dissection - The Lymphatic System

Assignment

**Week 5 Forum** Q&A: Ch. 21  
(due Wednesday)

**LearnSmart**  
Chapter 21

**Assignment 4**  
Unit Exam 1 Extra Credit

**Week 6: The Respiratory System**

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**Learning Objectives**

CO-1  
CO-2  
CO-3  
CO-4  
CO-5  
CO-6
Readings

Text Readings:

Saladin, Chapter 22: The Respiratory System

APR, Module 11: Respiratory; Dissection & Histology

Lab Activities:

Lab 13: The Respiratory System, Ex. 1: Microscopic Anatomy of the Respiratory System, Ex. 6: Fetal Pig Dissection - The Respiratory System

Assignment

Week 6 Forum Q&A: Ch. 22
(due Wednesday)

LearnSmart
Chapter 22

Week 7: The Urinary System

Learning Objectives

CO-1
CO-2
CO-3
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

Text Readings:

Saladin, Chapter 23: The Urinary System

APR, Module 13: Urinary; Dissection & Histology

Lab Activities:

Lab 14: The Urinary System, Ex. 4: Fetal Pig Dissection of the Urinary System, and Sheep Kidney

Assignment

Week 7 Forum Q&A: Ch. 23
(due Wednesday)

LearnSmart
Chapter 23

Assignment 5
Lab Report 3: Dissection Video of Sheep Heart and Fetal Pig Cardiovascular, Lymphatic, and Respiratory
System

Week 8: Fluid and Electrolyte Balance

Learning Objectives
CO-2
CO-6
CO-7
CO-8

Readings

Text Readings:
Saladin, Chapter 24.1: Water Balance & Chapter 24.2: Electrolyte Balance

Lab Activities:
None

Assignment

Week 8 Forum Q&A: Ch. 24.1-2
(due Wednesday)

Unit Exam 2
Saladin, Chapters 20-23

Week 9: Acid-Base Balance

Learning Objectives
CO-2
CO-5
CO-6
CO-7
CO-8

Readings

Text Readings:
Saladin, Chapter 24.3: Acid-Base Balance

Lab Activities:
Lab 15: Electrolytes, Water, Acids, and Bases, Ex. 1: Breathing and Acid-Base Balance, Ex. 2: Urine pH

Assignment

Week 9 Forum Q&A: Ch. 24.3
(due Wednesday)

LearnSmart
Chapter 24

Assignment 6
Week 10: The Digestive System

Learning Objectives

CO-1
CO-2
CO-3
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

Text Readings:

Saladin, Chapter 25: The Digestive System

APR, Module 12: Digestive; Dissection & Histology

Lab Activities:

Lab 16: The Digestive system, Ex. 1: Microscopic Anatomy of the Digestive System, Ex. 6: Fetal Pig Dissection of the Digestive System

Assignment

Week 10 Forum Q&A: Ch. 25
(due Wednesday)

LearnSmart
Chapter 25

Assignment 7
Lab Report 4: Electrolytes, Water, Acids, and Bases

Week 11: Nutrition

Learning Objectives

CO-2
CO-6
CO-7
CO-8

Readings

Text Readings:

Saladin, Chapter 26.1: Nutrition,

Chapter 26.4: Metabolic States and Metabolic Rate, and

Chapter 26.5: Body Heat and Thermoregulation
Week 11 Forum Q&A: Ch. 26.1, 26.4-5 (due Wednesday)

Week 12: Metabolism

Learning Objectives
CO-2
CO-4
CO-6
CO-7
CO-8

Readings
Text Readings:
Saladin, Chapter 26.2: Carbohydrate Metabolism, and Chapter 26.3: Lipid and Protein Metabolism

Lab Activities:
General Biology Lab 8: Metabolism, Ex. 1: Fermentation by Yeast, Ex. 2: Aerobic Respiration in Beans

Assignment
Week 12 Forum Q&A: Ch. 26.2-3 (due Wednesday)

LearnSmart
Chapter 26

Unit Exam 3
Saladin, Chapters 24-25

Week 13: The Male Reproductive System

Learning Objectives
CO-1
CO-2
CO-4
CO-5
CO-6
CO-7
CO-8

Readings
Text Readings:
Saladin, Chapter 27: The Male Reproductive System

APR Module 14: Reproductive; Dissection & Histology

Lab Activities:
None

Assignment

Week 13 Forum Q&A: Ch. 27
(due Wednesday)

LearnSmart
Chapter 27

Assignment 8
Lab Report 5: Metabolism

Assignment 9
Unit Exam 3 Extra Credit

Week 14: The Female Reproductive System

Learning Objectives
CO-1
CO-2
CO-3
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

Text Readings:
Saladin, Chapter 28: The Female Reproductive System

Lab Activities:
Lab 18: The Reproductive System, Ex. 1: Microscopic Anatomy of the Reproductive System, Ex. 3: Fetal Pig Dissection - The Reproductive System

Assignment

Week 14 Forum Q&A: Ch. 28
(due Wednesday)

LearnSmart
Chapter 28

Week 15: Human Development and Aging

Learning Objectives
CO-1
CO-2
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

**Text Readings:**

Saladin, Chapter 29: Human Development and Aging

**Lab Activities:**

Lab 3: Mitosis and Meiosis, Ex. 1: Observation of Mitosis in a Plant Cell, Ex. 2: Following Chromosomal DNA Movement through Mitosis, Ex. 3: Following Chromosomal DNA Movement through Meiosis

Assignment

**Week 15 Forum** Q&A: Ch. 29
(due Wednesday)

**LearnSmart**
Chapter 29

**Unit Exam 4**
Saladin, Chapters 26-28

**Assignment 10**
Lab Report 6: Dissection Video of Sheep Kidney, Fetal Pig Urinary, Digestive and Reproductive System

**Week 16: Wrap-Up and Assessment**

Learning Objectives

CO-1
CO-2
CO-4
CO-5
CO-6
CO-7
CO-8

Readings

**Text Readings:**

None

**Lab Activity:**

None

Assignment

**Week 16 Forum** Self-Assessment and Course Feedback
(due Wednesday)
Assignment 11
Unit Exam 4 Extra Credit

Comprehensive Exam
Includes Saladin, Chapter 29

Evaluation

Discussion Forums (16 forums; 10% of final grade)
During each week of the course, you will provide an initial post to the discussion forum by Wednesday of that week that is relevant to the assigned topic. In addition, you will respond to at least two of your classmate’s initial posts and answer any questions asked about your initial post by Sunday. The forums are for student interaction and input should be submitted as early in the week in order to fully participate in the discussions. Students should demonstrate their own knowledge in the forums and avoid copying and pasting from websites.

LearnSmart® Activities (13 activities; 10% of final grade)
Each week, you will complete one or two computer-based learning activities based on the week’s reading assignment. These activities use McGraw-Hill’s LearnSmart® adaptive learning system. You will be asked to answer a series of questions (multiple-choice, fill-in, matching, etc.) and also indicate your level of confidence in your answer. Based on your responses, the system will determine if you know the material or if you need additional practice on that particular learning objective. Your grade on each LearnSmart® activity is based on the percentage of questions successfully completed before the assigned due date.

Lab Assignments (6 assignments; 30% of final grade)
Each week, you will apply the lesson content in a laboratory exercise. You will submit six laboratory assignments based on the related laboratory exercises. Three of these assignments will be a written assignment and three will be a video-based submission.

Unit Exams (4 exams; 35% of final grade)
You will complete four unit exams during the course using McGraw-Hill’s Connect® system. Each exam will cover approximately 3 chapters of the course textbook, as well as the corresponding material from the digital cadaver (Anatomy and Physiology Revealed® 3.0) and laboratory activities. Exam questions cover both new material and relevant material from previous chapters. Unit exams are closed-book, closed-note, and the use of any external resources is prohibited.

Comprehensive Final Exam (1 final exam; 15% of final grade)
You will complete one final exam during the course using McGraw-Hill’s Connect® system. The exam will cover all course readings, material from the digital cadaver (Anatomy and Physiology Revealed® 3.0) and laboratory activities completed during both BIOL250 and BIOL251 courses. The final exam is closed-book, closed-note, and the use of any external resources is prohibited.

Please see the Student Handbook to reference the University’s grading scale.

Grading:

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<th>Name</th>
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<td>Assignment 6: Unit Exam 2 Extra Credit</td>
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Materials

**Book Title:** Custom Anatomy & Physiology II Lab Kit - students should order this kit if they did not take BIOL250 with APUS  
**Author:** ESCIENCE LABS  
**Publication Info:** ESCIENCE LABS  
**ISBN:** 5198

**Book Title:** Custom Anatomy & Physiology II Refill Kit - students should order this item if they previously registered for BIOL250 with APUS and need a refill kit  
**Author:** ESCIENCE LABS  
**Publication Info:** ESCIENCE LABS  
**ISBN:** 5199

**Book Title:** Anatomy & Physiology: A Unity of Form & Function, 7th ed. - The VitalSource e-book is provided via the APUS Bookstore. Connect access provided inside the classroom.  
**Author:** Saladin, Kenneth  
**Publication Info:** McGraw-Hill  
**ISBN:** 9780073403717

**Book Title:** Only 1 eScience lab kit is provided for this course. Any return fees or other fees associated with students ordering the wrong kit will not be covered by APUS.  
**Author:** N/A  
**Publication Info:** N/A  
**ISBN:** N/A

**NOTE:** Students MUST complete the following actions in order to receive the laboratory kit from eScience Labs.

1. Confirm the course materials order in the APUS Bookstore.  
   - The following business day, the student should receive an email from the APUS Bookstore containing a redemption code and registration instructions for an eScience Labs student account.
2. Create a student account at eScience Labs using the redemption code and provide shipping information for your kit  
   - A kit will not be shipped to the student until eScience Labs receives this information.  
3. The student should receive an email from eScience Labs or UPS containing tracking information and the expected delivery date once the kit has shipped.
In accordance with the Student Handbook (http://www.apus.edu/student-handbook/course-materials/), students who have not received a shipping confirmation email from eScience Labs or UPS by the first Friday of class must drop the course and re-register for a future semester.

If you are retaking BIOL251 and need to replenish the supplies in your kit:

- A resupply kit is available for purchase directly from eScience Labs. Please discuss your situation with your instructor before purchasing the consumables kit.

Required Technology

- See the Technology Requirements section of the undergraduate catalog for the minimum hardware and software requirements.
- In addition, students must be able to document their laboratory work using still pictures and/or video.
- Microsoft Office 365 is available to APUS students for free. To sign up, visit http://products.office.com/en-us/student. If you have questions about accessing the software, please contact Classroom support at classroomsupport@apus.edu.

Course Guidelines

Citation and Reference Style

- Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format.

Tutoring

- Tutor.com offers online homework help and learning resources by connecting students to certified tutors for one-on-one help. AMU and APU students are eligible for 10 free hours* of tutoring provided by APUS. Tutors are available 24/7 unless otherwise noted. Tutor.com also has a SkillCenter Resource Library offering educational resources, worksheets, videos, websites and career help. Accessing these resources does not count against tutoring hours and is also available 24/7. Please visit the APUS Library and search for ‘Tutor’ to create an account.

Late Assignments

- Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. The due date for each assignment is listed under each Assignment.
- Generally speaking, late work may result in a deduction up to 15% of the grade for each day late, not to exceed 5 days.
- As a working adult I know your time is limited and often out of your control. Faculty may be more flexible if they know ahead of time of any potential late assignments.

Turn It In

- Faculty may require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. In some cases professors may require students to use Turnitin.com. This is automatically processed through the Assignments area of the course.

Academic Dishonesty

- Academic Dishonesty incorporates more than plagiarism, which is using the work of others without citation. Academic dishonesty includes any use of content purchased or retrieved from web services such as CourseHero.com. Additionally, allowing your work to be placed on such web services is
academic dishonesty, as it is enabling the dishonesty of others. The copy and pasting of content from any web page, without citation as a direct quote, is academic dishonesty. When in doubt, do not copy/paste, and always cite.

Submission Guidelines

- Some assignments may have very specific requirements for formatting (such as font, margins, etc) and submission file type (such as .docx, .pdf, etc) See the assignment instructions for details. In general, standard file types such as those associated with Microsoft Office are preferred, unless otherwise specified.

Disclaimer Statement

- Course content may vary from the outline to meet the needs of this particular group.

Communicating on the Forum

- Forums are the heart of the interaction in this course. The more engaged and lively the exchanges, the more interesting and fun the course will be. Only substantive comments will receive credit. Although there is a final posting time after which the instructor will grade comments, it is not sufficient to wait until the last day to contribute your comments/questions on the forum. The purpose of the forums is to actively participate in an on-going discussion about the assigned content.
- “Substantive” means comments that contribute something new and hopefully important to the discussion. Thus a message that simply says “I agree” is not substantive. A substantive comment contributes a new idea or perspective, a good follow-up question to a point made, offers a response to a question, provides an example or illustration of a key point, points out an inconsistency in an argument, etc.
- As a class, if we run into conflicting view points, we must respect each individual's own opinion. Hateful and hurtful comments towards other individuals, students, groups, peoples, and/or societies will not be tolerated.

University Policies

Student Handbook

- Drop/Withdrawal policy
- Extension Requests
- Academic Probation
- Appeals
- Disability Accommodations

The mission of American Public University System is to provide high quality higher education with emphasis on educating the nation’s military and public service communities by offering respected, relevant, accessible, affordable, and student-focused online programs that prepare students for service and leadership in a diverse, global society.

**STUDENT WARNING:** This course syllabus is from a previous semester archive and serves only as a preparatory reference. Please use this syllabus as a reference only until the professor opens the classroom and you have access to the updated course syllabus. Please do NOT purchase any books or start any work based on this syllabus; this syllabus may NOT be the one that your individual instructor uses for a course that has not yet started. If you need to verify course textbooks, please refer to the online course description through your student portal. This syllabus is proprietary material of APUS.