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BIOH 461.80: Tutoring Human Anatomy and Physiology I - Honors

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BIOH461: Tutoring Human Anatomy and Physiology I/Honors
Course Syllabus and Policies

BIOH461 Fall 2014

Tutoring Human Anatomy and Physiology I/Honors

Instructor: Dr. Laurie Minns

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Email: Laurie.Minns@mso.umt.edu

Office Hours: Mondays and Wednesdays 10am-11am (or by appointment)

**** Pre-requisite:** Grade of B- or higher in BIOH365, consent of instructor

Course Structure

- Lecture, discussion and preparation of teaching materials for BIOH 365/370.
- Weekly meetings to discussing teaching strategies effective for undergraduate BIOH365/370 courses.
- Supervised tutoring of lecture-based material for BIOH365.

Required materials:

Principles of Anatomy and Physiology 14th edition by Gerard J. Tortora, Bryan H. Derrickson - John Wiley & Sons (2014) – ISBN 978- 1-118-34500-9 plus the Wiley Plus online package (available at the University of Montana Bookstore).

Atlas of Anatomy by Anne M. Gilroy, Brian R. MacPherson, Lawrence M. Ross - Thieme (2008) –ISBN-978-1-60404-062-1 or the 2nd edition of the Gilroy atlas or the electronic edition (available from www.thieme.com)

Course Goals, Objectives and Outcomes:

The two-semester sequence is divided as follows:

Fall Semester (Proposed BIOH461)	Spring Semester (Proposed BIOH463)
Body Plan & Organization Homeostasis Chemistry & Cell Biology Review Histology Integumentary System Skeletal System & Articulations Muscular System Nervous System Special Senses	Endocrine System Cardiovascular System Lymphatic System & Immunity Respiratory System Digestive System Metabolism Urinary System Fluid/Electrolytes & Acid/Base Balance Reproductive System

Course Objectives:

Upon successful completion of this two-course sequence, you will have mastered the conceptual and practical information regarding the anatomy and physiology

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of the human organism by providing tutoring based on lecture material covered in the two-semester sequence of Human Anatomy and Physiology for Health Professionals (BIOH365/370). Enrolled students will integrate principles learned in BIOH365/370 (*Human Anatomy and Physiology*) into practice by providing tutoring instruction to current BIOH365 students.

Learning Objectives:

Upon completion of this course, a student will be able to:

1. Understand the complex principles associated with the Human Anatomy and Physiology and assist in teaching these concepts to students enrolled in BIOH365.
2. Use a multi-modal instructional approach to help students enrolled in BIOH365 better understand the complex learning material.
3. Understand and discuss the methodology and activities scientists use to gather, validate and interpret data related to natural processes as it applies to Human Anatomy and Physiology.
4. Detect patterns, draw conclusions, develop conjectures and hypotheses regarding normal human physiology and help students anticipate the pathophysiology that could result when homeostasis is lost in humans.
5. Understand and discuss how quantitative measurement, scientific observation, and logical/critical reasoning verify scientific laws and theories as they pertain to advances in medical understanding.

Learning Outcomes

1. Demonstrate understanding of chemical and biological principles and knowledge that serve as the foundation for understanding human anatomy and physiology.
2. Understand and analyze cellular processes governing development, growth and normal function of the human body.
3. Understand the processes involved with maintaining homeostasis and anticipate what may occur when homeostatic balance mechanisms are lost.
4. Demonstrate practical knowledge of human gross and microscopic anatomy using human cadavers and prepared histological slides.
5. Identify structures in the body and analyze their relationship with other structures.
6. Describe development, regeneration and normal function of body systems
7. Understand the cellular and physiological mechanisms that drive tissue formation and function.

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8. Employ the scientific process for understanding principles of anatomy and physiology.
9. Analyze A&P observations and data and determine the potential physiological consequences.
10. Become familiar with current teaching practices and ways to address the various learning styles of students in the human anatomy and physiology courses.
11. Develop professional behavior and strategies for explaining difficult concepts in human anatomy and physiology to adults with an application in health professions.

To establish and maintain an effective rapport with individual students/small student groups and to design tutor instruction around adult learning principles. Participants are required to:

- Attend at least 60% of the BIOH365 lectures as an observer (questions to Dr. Minns must be communicated outside of scheduled class times).
- Attend Friday 12:10-1pm meetings in HS101 with the UGTAs
- Establish a minimum of **two office (tutor) hours per week**.
- Proctor exams and assist with grading as needed.
- Provide at least one (1hour) review session the week prior to scheduled Lecture exams (can be in place of one of the regular office hours)
- Maintain open communication with Dr. Minns regarding student issues that may make themselves evident during tutoring sessions.
- Monitor the Moodle course website for important announcements and course materials.

Optional:

- Tutors may enroll in the Cadaver Dissection course.

Grading:

Students will begin the semester with a grade of a Solid A. If office hours are not maintained (regardless of student attendance at scheduled office hours), then students will lose points that will affect the course grade.

Dr. Minns will periodically check on tutors during scheduled office hours.

Failure to notify Dr. Minns of any absences prior to scheduled office hours will result in a drop of one letter grade. In the case of an emergency or illness that prohibits tutors from maintaining scheduled office hours, tutors are required to email Dr. Minns so that she may send an announcement to students enrolled in BIOH365 who may have planned on attending office hours.

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Safety Considerations:

- All tutoring must occur in public conference rooms with the door open during scheduled office hours.
- Do not share your personal information with students.
- You are not required to tutor students outside of scheduled office hours. Set boundaries and stick with them with regard to time and location of tutoring sessions.
- If you ever feel you are in danger during a study session, notify Campus Security immediately (ext. 4000).
- Notify Dr. Minns if you have any safety concerns.
- Maintain personal space between you and students at all times.
- It is not appropriate to date or obtain personal information from students you are tutoring; maintain a professional demeanor.

Syllabus:

Important course dates will follow the syllabus for BIOH365.

Day of Week	Dates	Monday	Readings Tortora and Derrickson
Monday	Aug. 25	Review Syllabus and Course Policies	
Tues-Thurs	Aug. 26-28	Lab 1: Anatomical terms, Gross and Surface Anatomy, Cellular anatomy and Physiology Terms to Know (TTKs) are due at the beginning of lab.	(see required readings and objectives below for all lab meetings)
Wednesday	Aug. 27	An Introduction to the Human Body	Chapter 1 1-26
Friday	Aug. 29	An Introduction to the Human Body	Chapter 1 1-26
Sunday	Aug. 31	Chap. 1 and 2 Quiz is due	
Monday	Sept. 1	Labor Day- no class!	
Tues-Thurs	Sept. 2-4	Lab 2: Tissues and the Integumentary System Lab 2 Quiz	
Wednesday	Sept. 3	The Chemical Level of Organization (Chemistry will not be covered in depth in Lecture but you are responsible for	Chapter 2 27-58

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		comprehending all material in the text)	
Friday	Sept. 5	The Cellular Level of Organization	Chapter 3 59-106
Sunday	Sept. 7	Chap. 3 quiz is due Pre-term Assessment is due	
Monday	Sept. 8	The Cellular Level of Organization	Chapter 3 59-106
Tues-Thurs	Sept. 9-11	Lab 3: Bone Histology and the Axial Skeleton Lab 3 quiz -Case Study 1 due-	
Wednesday	Sept. 10	The Cellular Level of Organization	Chapter 3 59-106
Friday	Sept. 12	The Tissue Level of Organization	Chapter 4 106-141
Sunday	Sept. 14	Chap.4 quiz is due	
Monday	Sept. 15	The Tissue Level of Organization	Chapter 4 106-141
Tues-Thurs	Sept. 16-18	Lab 4: Appendicular Skeleton Lab 4 quiz	
Wednesday	Sept. 17	Embryonic tissue Development and Differentiation	Chapter 29 1089-1104
Friday	Sept. 19	Embryonic tissue development and differentiation Integumentary System	Chapter 29 1089-1104 Chapter 5 142-168
Sunday	Sept. 21	Chap. 5 and part of 29 quiz is due	
Monday	Sept 22	Integumentary System	Chapter 5 153-181
Tues-Thurs	Sept. 22-25	Lab 5: Articulations and Movement Lab 5 quiz	
Wednesday	Sept. 24	Integumentary System	Chapter 5 153-181
Friday	Sept. 26	Integumentary System	Chapter 5 153-181
Sunday	Sept. 28 (extended to Tuesday Sept. 30)	Chap. 6 quiz is due	
Monday	Sept. 29	Lecture Exam 1 (Chapters 1-5, part of 29)	
Tues-Thurs	Sept. 30-Oct.2	Lab 6: Muscles and innervation of the lower extremity Lab 6 quiz	

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Wednesday	Oct. 1	The Skeletal System: Bone Tissue	Chapter 6 169-192
Friday	Oct. 3	The Skeletal System: Bone Tissue	Chapter 6 169-192
Sunday	Oct. 5	Chap. 7 quiz is due	
Monday	Oct. 6	The Skeletal System: The Axial Skeleton	Chapter 7 192-230
Tuesday-Thursday	Oct. 7-9	Lab Practical 1	Covers labs 1-6
Wednesday	Oct. 8	The Skeletal System: The Axial Skeleton, The Appendicular Skeleton	Chapter 7 192-230 Chapter 8 231-257
Friday	Oct. 10	Appendicular Skeleton, Joints	Chapter 8 231-257 Chapter 9 258-290
Sunday	Oct. 12	Chap. 8 and 9 quiz is due	
Monday	Oct. 13	Joints	Chapter 9 258-290
Tues-Thurs	Oct. 14-16	Lab 7: Muscles and innervation of the Upper extremity, anterior thorax and superficial posterior thorax	
Wednesday	Oct. 15	The Nervous System and Nervous Tissue	Chapter 12 399-472
Friday	Oct. 17	The Nervous System and Nervous Tissue	Chapter 12 399-472
Sunday	Oct. 19	Chap. 12 quiz is due	
Monday	Oct. 20	The Nervous System and Nervous Tissue	Chapter 12 399-472
Tues-Thurs	Oct. 21-23	Lab 8: Muscles of the face, muscles and innervation of the neck and deep back Lab 8 quiz	
Wednesday	Oct. 22	Muscular Tissue	Chapter 10 291-327
Friday	Oct. 24	Muscular Tissue	Chapter 10 291-327
Sunday	Oct. 26	Chapter 10 and 11 quiz is due	
Monday	Oct. 27	Muscular Tissue The Muscular System	Chapter 10 291-327 Chapter 11 328-398
Tues-Thurs	Oct. 28-30	Lab 9: Central Nervous System Lab 9 quiz	

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Wednesday	Oct. 29	The Muscular System	Chapter 11 328-398
Friday	Oct. 31	The Muscular System	Chapter 11 328-398
<u>Monday</u>	<u>Nov. 3</u>	<u>Lecture Exam 2 (Chapters 6-12)</u>	
Tues-Thurs	Nov. 4-6	Lab 10: Spinal Cord, PNS and ANS- Virtual lab/ no in-class labs Take home lab quiz	
Tuesday	Nov. 4	Chapter 14 quiz due	
Wednesday	Nov. 6	The Brain and Cranial Nerves	Chapter 14 473-522
Friday	Nov. 8	The Brain and Cranial Nerves	Chapter 14 473-522
Sunday	Nov. 9	Chap 16 quiz is due	
Monday	Nov. 10	The Brain and Cranial Nerves	Chapter 14 473-522
Tues-Thurs	Nov. 11-13	No Lab/Open labs to review Spinal Cord, PNS and ANS Case Study 2 due	
Wednesday	Nov. 12	Sensory, Motor and Integrative Systems	Chapter 16 546-572
Friday	Nov. 14	Sensory, Motor and Integrative Systems	Chapter 16 546-572
Sunday	Nov. 16	Chap. 13 quiz is due	
Monday	Nov. 17	Sensory, Motor and Integrative Systems	Chapter 16 546-572
Tuesday- Thursday	Nov. 18-20	Lab 11: Special Senses/ Brachial Plexus/Spinal cord Lab 11 quiz	
Wednesday	Nov. 19	The Spinal Cord and Spinal Nerves	Chapter 13 442-473
Friday	Nov. 21	The Spinal Cord and Spinal Nerves	Chapter 13 442-473
Sunday	Nov. 23	Chap. 15 quiz is due	
Monday	Nov. 24	The Autonomic Nervous System	Chapter 15 523-546
Tuesday	Nov. 25	Open Labs in place of regular labs	
Wednesday	Nov. 26	Thanksgiving Holiday- no class	
Friday	Nov. 28	Thanksgiving Holiday- no class	
Sunday	Nov. 30	Chap. 17 quiz is due	

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Monday	Dec. 1	The Autonomic Nervous System The Special Senses	Chapter 15 523-546 Chapter 17 572-614
Tuesday- Thursday	Dec. 2-4	Lab Practical 2 (on labs 7-11)	
Wednesday	Dec. 3	The Special Senses	Chapter 17 572-614
Friday	Dec. 5	The Special Senses	Chapter 17 572-614
Friday	Dec. 12	Final Exam 8am-10am	Chapters-13- 17 and Semi- cumulative