



Introduction to Human Anatomy and Physiology
BIO 160 – Fall 2020

Instructor information

Name: JP Hyatt, Ph.D.

Office: UCENT 329

Office Hours: Tues & Thurs: By Zoom appointment *only* (Fall 2020).

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Phone Number: 602-496-0752

Lecture: BCLS 140; Tues & Thurs: 9-10:15am*

Lab: UCENT 381 or 383; Fridays*

**Fall 2020: please check daily for updates for any changes in the schedule. Note: all in-person attendance is optional and all regularly scheduled lecture and laboratory times will be accessible via Zoom*

This course is offered by the College of Integrative Sciences and Arts. For more information about the college, visit our website: <https://cisa.asu.edu/>. If you have questions or concerns, please send your inquiry to cisa@asu.edu.

Course Description

Introduces essential concepts in human anatomy and physiology and the structure and function of the human body. A four credit hour course (3 lecture, 1 lab) designed for students in the health-related professions. It will acquaint the student with human anatomy, structure, and function, basic disease concepts, and terminology. Course concepts will be organized and presented by organ systems, and the laboratory component of the course will emphasize human structure and function. The course has 3 contact hours for lecture and 3 contact hours for lab per week

Enrollment Requirements

None

Course Overview

BIO 160 is designed as a one-semester introduction to Anatomy and Physiology. ***It should be noted that BIO160 cannot be used as a substitute for the two-semester A&P series (BIO 201 & BIO 202) where those courses are required in for an ASU degree program, as pre-requisites for upper division courses, or for individual goals such as graduate programs in the health sciences (i.e., medicine, PT/OT, research).*** The objective of the course is to offer students an introductory experience that enables them to become conversant in the terminology, technology, and associated concepts in anatomy and physiology. This is done with the goal of empowering them to apply this understanding in their intended programs of study.

The course will combine lectures with laboratory experiences that will guide the student through the human body, as organized conceptually by organ systems, to reinforce understanding of basic concepts of anatomy and physiology and human health and disease.

Student Learning Outcomes

Upon completion of BIO 160, the student will be able to:

1. Pronounce, define and utilize the terminology associated with topics covered in this course.
2. Identify correctly the anatomic structures of the major organ systems of the human body.
3. Identify and describe general physiological functions of the major organ systems of the human body.
4. Analyze changes in science and healthcare technology and make informed decisions relative to the topics of this course.
5. Describe the development of the organ systems and the impact of various disease states.
6. Demonstrate evidence-based critical thinking on exercises through exposure to topical areas of ongoing debate and controversy in human health.
7. Solve scientific and clinical problems using reasoning skills.
8. Demonstrate and model professional behavior during interactions, presentations, and communication with colleagues, staff, and faculty.

Required Materials

- **eText** + access to *Connect*: Longenbaker, SN. Mader's Understanding Human Anatomy & Physiology 10th ed. McGraw-Hill, 2017. All students will be automatically enrolled in the publisher's "Inclusive Access" which will give students access to the text and *Connect* for online laboratory activities. If a student does not wish to participate in the Inclusive Access option for the class and wish to separately purchase access to *Connect*, then that person will be provided an opportunity to "opt out" of the Inclusive Access option before his/her ASU account is charged for Inclusive Access.
- Access to **Canvas**: Information pertaining to this class will be listed on Canvas. To access the Canvas course, log in to MyASU located on the ASU homepage. You will want to check Canvas daily for announcements pertaining to the class. You will also access information here related to lecture and laboratory. If you miss a class, then it is your responsibility to get the notes from another student. I suggest you get another student's email and phone number the first week of school.
- Access to a computer
- Appropriate attire for lab, including lab coats and safety glasses, *if you have intentions to attend optional in-person laboratories (Fall 2020)*. (Please see **Laboratory Safety**)

ASU Sync (Fall 2020)

Fall 2020: This course is scheduled as an in-person (face-to-face) course. If enrollment is <100, then you will attend some class sessions in-person and be remote for other sessions to ensure we keep the room occupancy below 50%. Please check daily for announcements early in the semester whether this class will be fully remote or meet in-person.

For the remote option, this course uses Sync. ASU Sync is a technology-enhanced approach designed to meet the dynamic needs of the class. During Sync classes, students learn remotely through live class lectures, discussions, study groups, and/or tutoring. You can find out more information about ASU Sync for students here: <https://provost.asu.edu/sync/students>.

To access live sessions of this class, go to MyASU and click the Attend via Sync button next to this class on your schedule.

To ensure in-person participation stays below 50% room occupancy, the class will be split into groups. Students will be assigned a day to attend the class in-person and placed on a rotation schedule. This means you will rotate between in-person and ASU Sync (Zoom) attendance.

On Tuesdays, students with last names beginning with A-M will meet in-person while the other half of the class participates in the live class on Zoom via ASU Sync. On Thursdays, students with last names beginning with N-Z will meet in-person while the other half of the class participates in the live class on Zoom via ASU Sync. Contact me if you need to change your attendance assignment.

If you cannot physically be on campus due to travel restrictions or personal health concerns, you will be able to attend your classes via ASU Sync during the fall semester. If you will not be on-campus for the fall semester, you are expected to contact your professors to make accommodations.

Face Coverings (Fall 2020)

Everyone is required to wear a face cover while in ASU buildings and community spaces, regardless of distance. Face covers help prevent pre-symptomatic and asymptomatic individuals from inadvertently spreading COVID-19 to others. They are meant to protect others in case you are sick. Students will be required to wear a face cover in the classroom. For more information about face coverings, please visit the [FAQ page](#).

Assignments, Exams, and Grading (Fall 2020)

Grading Criteria

Module 0 (Syllabus) Quiz	1%
Unit Quizzes (3% each)	50%
Laboratory (Connect)	37%
Virtual Labs	
Anatomy quizzes	
Lab Practical (6% each)	<u>12%</u>
	100%

Grading Scale (Fall 2020)

A = 90 – 100%
B = 80 – 89.99%
C = 70 – 79.99%
D = 60 – 69.99%
E = 0 – 59.99%

XE = failing grade resulting from academic dishonesty

Y grades are not offered in this class

Note: Typically, final grades in the course are reported only as whole letter grades, but faculty *may* assign +/- final grades.

Quizzes & Lab Practical Exams

Fall 2020: all testing will be conducted on-line this semester. Be mindful of the time limits and be organized and prepared before you start each test.

Laboratory and safety

Fall 2020: all in-person laboratories are option. Students are required to access their laboratory section virtually / remotely via Zoom which will be conducted by their TA/IA. In-person laboratory experiences will occur at a time outside of their regularly scheduled laboratory meeting time. This optional in-person experience will be in a controlled laboratory environment and students should adhere to the rules that are posted or conveyed to them while in the laboratory room. These rules will factor in social distancing and laboratory specimen observation/handling. Optional in-person laboratories will be conducted in an “open house” format whereby specimens will be displayed at stations; students may only observe and not touch the displays. Students will be allowed a pre-set amount of time at each station.

Laboratory Safety: If you attend the optional in-person laboratory, then all university safety regulations must be obeyed. NO FOOD OR DRINKS OF ANY KIND ARE PERMITTED IN LAB. Bottled water is only allowed if it is in a closed container and kept in your bag. It may NOT be taken out or opened at ANY point in lab. If you need a drink of water, please use the water fountains outside UCENT 383. Everyone must also have proper attire for work in the lab. That means NO OPEN-TOED SHOES, no short shorts, no

bared midriffs: in other words, please cover up before coming to lab. If your outfit is inappropriate for the week's lab, and may endanger your safety or another's, you may be asked to leave.

General Course Policies for Lecture and Lab

ATTENDANCE POLICY

Fall 2020: In-person attendance is optional for lecture and lab. You will be required to access lecture or your laboratory section remotely via Zoom. Logging in late or leaving Zoom early may impact your grade.

Be mindful of the open / close dates for Unit quizzes and laboratory quizzes / practicals. There are no extensions for any test or laboratory. If you miss an exam due to an unexcused absence, you will receive a grade of zero for that exam. Documentation to support a petition to be excused will be reviewed from students who miss exams due to documented issues. You will need to provide documentation that supports your request to be excused. The determination of whether an absence is considered excused will be at the discretion of the faculty and in accordance with relevant university policies. If you are excused from an exam, the final resolution of the grade for that assessment will be determined on a case—by-case basis at the discretion of the faculty. Participation in ASU-sponsored events must be cleared beforehand, with proper documentation, and arrangements made to take the exam. Repeated and frequent excused absences may prevent a student from accruing an acceptable point accumulation that will allow the instructor to provide an end-of-the-semester letter grade. **In this case, if the student misses >3 laboratories during the semester**, then the student may be asked to finish the class during a subsequent semester and the “Incomplete” grade will be administered until the assignments are completed at a later date/time.

LATE OR MISSED ASSIGNMENTS

Assignments in this course are not accepted late. Late or missed assignments will earn no credit, and a grade of zero will be assigned.

EXTRA CREDIT

No extra credit is assigned or awarded in this course

Communicating with your Instructor and Classmates (Fall 2020)

Classroom Community - To build a course climate that is comfortable for all, it is important that students (1) display respect for all members of the class – including the instructor and students; (2) pay attention to and participate in all interactive student partner/instructor sessions and activities; and (3) observe the rules of appropriate online behavior (also known as netiquette). This term is defined by the instructor and includes keeping course discussion posts and oral communication with other students (or the instructor) focused on the assigned topics. Students must maintain a cordial atmosphere and use tact in expressing differences of opinion. In addition, they must avoid racist, sexist, homophobic, or other negative language that may unnecessarily exclude course members. This is not an exhaustive list of behaviors; rather, it represents examples of the types of things that can have a dramatic impact on the course environment. Your final grade may be reduced each time you engage in the types of negative behaviors indicated above.

Email questions of a personal nature to your instructor.

Chat – The Chat tool in Canvas allows students and teachers to interact in real time. Use Chat only for informal course-related conversations unless your instructor informs you otherwise. Chat is not ideal for

questions about assignments; instructors are not required to monitor it and conversations may be buried or lost.

TRIGGER WARNING

Please note that some course content may be deemed offensive by some students, although it is not my intention to offend anyone. In addition, some materials that we link with online might also be considered offensive, troubling, or difficult to review in terms of language or graphics. I attempt to provide warnings when introducing this kind of material.

ESTABLISHING A SAFE ENVIRONMENT

Learning takes place best when a safe environment is established in the classroom. In accordance with [SSM 104-02 of the Student Services Manual](#), students enrolled in this course have a responsibility to support an environment that nurtures individual and group differences and encourages engaged, honest discussions. The success of the course rests on your ability to create a safe environment where everyone feels comfortable to share and explore ideas. We must also be willing to take risks and ask critical questions. Doing so will effectively contribute to our own and others intellectual and personal growth and development. We welcome disagreements in the spirit of critical academic exchange, but please remember to be respectful of others' viewpoints, whether you agree with them or not.

EMAIL COMMUNICATION

ASU email is an [official means of communication](#) among students, faculty, and staff. Students are expected to read and act upon email in a timely fashion. Students bear the responsibility of missed messages and should check their ASU-assigned email regularly. *All instructor correspondence will be sent to your ASU email account.* For help with your email go to: MyASU > Service > Live Chat OR New Ticket.

PROHIBITION OF COMMERCIAL NOTETAKING SERVICES

In accordance with [ACD 304-06 Commercial Note Taking Services](#), written permission must be secured from the official instructor of the class in order to sell the instructor's oral communication in the form of notes. Notes must have the note taker's name as well as the instructor's name, the course number, and the date.

Dates	Unit / Lecture topics (Book Chapter)	Assignments	In-person / On-ground Laboratory
Aug 20 - Aug 30	Module 0 Introduction Unit 1 - Introduction (Ch. 1)	Syllabus quiz Lab Safety Agreement	
Aug 24 - Sep 6	Module 1 Unit 2 - Biochemistry (Ch. 2) Unit 3 - Cells (Ch. 3) Unit 4 - Tissues (Ch. 4)	Module 1 Quizzes Module 1 Labs	Bone identification "open house" (Aug. 28th & Sep 4th)
Sep 7 - Sep 20	Module 2 Unit 5 - Mechanisms of Disease (PPT only) Unit 6 - Integumentary System (Ch. 5) Unit 7 - Skeletal System (Ch. 6)	Module 2 Quizzes Module 2 Labs	Muscle identification "open house" (Sep. 11th & 18th)
Sep 21 - Oct 4	Module 3 Unit 8 - Muscular System (Ch. 7) Unit 9 - Nervous System (Ch. 8)	Module 3 Quizzes Module 3 Labs	Brain identification "open house" (Sep. 25th & Oct. 2nd)
Oct 5 - Oct 18	Module 4 Unit 10 - Endocrine System (Ch. 10) Unit 11 - Cardiovascular System (Ch. 12)	Module 4 Quizzes	Lab Practical #1 (Oct. 9th online 7am - 4pm)
Oct 19 - Nov 1	Module 5 Unit 12 - Respiratory System (Ch. 14) Unit 13 - Immune System (Ch. 13)	Module 5 Quizzes Module 5 Labs	Heart identification "open house" (Oct. 16th & 23rd)
Nov 2 - Nov 15	Module 6 Unit 14 - Digestive System (Ch. 15) Unit 15 - Nutrition & Metabolism (PPT only)	Module 6 Quizzes Module 6 Labs	Respiratory identification "open house" (Oct. 30th & Nov. 6th)
Nov 16 - Nov 29	Module 7 Unit 16 - Urinary System (Ch. 16) Unit 17 - Reproductive System (Ch. 17)	Module 7 Quizzes Module 7 Labs	Digestive identification "open house" (Nov. 13th & 20th)
Nov 23 - Dec 4	Module 8 Unit 18 - Growth & Development (Ch. 18) Unit 19 - Genetics & Heredity (Ch. 19)	Module 8 Quizzes	Lab Practical #2 (Dec. 4th online 7am - 4pm)



UNIVERSITY POLICIES

Academic Integrity

Arizona State University and the College of Integrative Sciences and Arts strongly believe in academic integrity; thus cheating and plagiarism is not tolerated. If a student is charged with academic dishonesty and found to be in violation, disciplinary action will be taken and a student's name will be kept on file. Academic dishonesty includes borrowing ideas without proper citation, copying others' work (including information posted on the internet), failing to turn in your own work for group projects, as well as providing materials of any type to a homework help site or a study resource site. Disciplinary action may result in a reduced grade for the assignment or class, suspension or expulsion from the university, and/or an XE on his or her transcript. For further information, please read the Student Academic Integrity policy at <https://provost.asu.edu/academic-integrity>.

Students with Disabilities

If you need academic accommodations or special consideration of any kind to get the most out of this class, please let me know at the beginning of the course. If you have a disability and need a reasonable accommodation for equal access to education at ASU, please call Disability Resources for Students.

The site can be found here: <https://eoss.asu.edu/drc>

Downtown Phoenix Campus University Center building, Suite 160 Phone: 602.496.4321 E-mail: DRCDowntown@asu.edu	Tempe Campus Matthews Center building, 1st floor Phone: 480.965.1234 E-mail: DRCTempe@asu.edu
Polytechnic Campus Sutton Hall - Suite 240 Phone: 480.727.1039 E-mail: DRCPoly@asu.edu	West Campus University Center Building, Room 130 Phone: 602.543.8145 E-mail: DRCWest@asu.edu

Mental Health

As a student, you may experience a range of challenges that can interfere with learning, such as strained relationships, increased anxiety, substance use, feeling down, difficulty concentrating and/or lack of motivation. These emotional health concerns or stressful events may diminish your academic performance and/or reduce your ability to participate in daily activities. ASU Counseling Services provides counseling and crisis services for students who are experiencing a mental health concern. Any student may call or walk-in to any ASU counseling center for a same day or future appointment to discuss any personal concern. Here is the Web site: <https://eoss.asu.edu/counseling>. After office hours and 24/7 ASU's dedicated crisis line is available for crisis consultation by calling 480-921-1006.

Student Code of Conduct

Students are required to adhere to the behavior standards listed in the Arizona Board of Regents Policy Manual Chapter V –Campus and Student Affairs: Code of Conduct located online at

<http://students.asu.edu/srr/code> and the ACD 125: Computer, Internet, and Electronic Communications available at <http://asu.edu/aad/manuals/acd/acd125.html>.
<http://asu.edu/aad/manuals/acd/acd125.html>

Students are entitled to receive instruction free from interference by other members of the class. An instructor may withdraw a student from a course when the student's behavior disrupts the educational process under USI 201-10 <http://www.asu.edu/aad/manuals/ssm/ssm201-10.html>. An instructor may withdraw a student from a course with a mark of "W" or "E" when the student's behavior disrupts the educational process. Disruptive classroom behavior for this purpose is defined by the instructor.

Harassment Prohibited

ASU policy prohibits harassment on the basis of race, sex, gender identity, age, religion, national origin, disability, sexual orientation, Vietnam era veteran status, and other protected veteran status. Violations of this policy may result in disciplinary action, including termination of employees or expulsion of students. Contact the professor if you are concerned about online harassment of any kind, and he/she will put you in contact with the Dean of Students office.

Title IX

Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at <https://sexualviolenceprevention.asu.edu/>.

Statement on Inclusion

Arizona State University is deeply committed to positioning itself as one of the great new universities by seeking to build excellence, enhance access and have an impact on our community, state, nation and the world. To do that requires our faculty and staff to reflect the intellectual, ethnic and cultural diversity of our nation and world so that our students learn from the broadest perspectives, and we engage in the advancement of knowledge with the most inclusive understanding possible of the issues we are addressing through our scholarly activities. We recognize that race and gender historically have been markers of diversity in institutions of higher education. However, at ASU, we believe that diversity includes additional categories such as socioeconomic background, religion, sexual orientation, gender identity, age, disability, veteran status, nationality and intellectual perspective.

Syllabus Disclaimer

The course syllabus is an educational contract between the instructor and students. Every effort will be made to avoid changing the course schedule but the possibility exists that unforeseen events will make syllabus changes necessary. The instructor reserves the right to make changes to the syllabus as deemed necessary. Students will be notified in a timely manner of any syllabus changes via email, or in the Announcements section on Canvas.

Campus Resources

As an ASU student you have access to many resources on campus. This includes tutoring, academic success coaching, counseling services, financial aid, disability resources, career and internship help and many opportunities to get involved in student clubs and organizations.

- Tutoring: <http://studentsuccess.asu.edu>
- Counseling Services: <http://students.asu.edu/counseling>
- Financial Aid: <http://students.asu.edu/financialaid>
- Disability Resource Center: <http://www.asu.edu/studentaffairs/ed/drc/>
- Major/Career Exploration: <http://uc.asu.edu/majorexploration/assessment>
- Career Services: <http://students.asu.edu/career>
- Student Organizations: <http://www.asu.edu/studentaffairs/mu/clubs/>
- ASU Writing Centers: <https://tutoring.asu.edu/writing-centers>
- ASU Police Department: <https://cfo.asu.edu/police>
- International Student Resources: <https://students.asu.edu/international/support/academic>