**University of Pittsburgh**
**Department of Biological Sciences**
**BIOSC 0042 Syllabus -Fall Term 2021 (2221)**

| Course | Section | Course Title | Credits |
|---|---|---|---|
| **BIOSC 0042** | **1+2** | **Anatomy for the Health Professions Laboratory** | **1** |

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| **Class Time:** | 9:00-11:50 am Thursday and 1:00 -3:50 pm Thursday |
| **Lab Room:** | 180 Crawford |
| **Instructor:** | Burhan Gharaibeh, PhD |
| **Teaching Assistants** | Ms. Emily Hauk: EAH105@pitt.edu and Ms. Sadhana Suri SAS505@pitt.edu |
| **Department:** | Biological Sciences |
| **Contacting Dr. Gharaibeh:** | The best way to contact me, regardless of the University operating posture, is by emailing Burhan@pitt.edu or calling 412-624-7384. Voicemail is delivered to my inbox. |
| **Faculty Office No.:** | via Zoom |
| **Web page:** | https://www.biology.pitt.edu/person/burhan-gharaibeh |
| **Office Hours:** | Office hours will take place through Zoom on Monday from 1-3 pm, regardless of the University operating posture. Zoom links for office hours will be accessed through Canvas. |

**Catalog Description:**
This laboratory course is designed to meet anatomy pre-requisites for students who are applying for admission to health profession programs but does not count towards any of the majors in biological sciences. This laboratory provides a visual opportunity to learn human anatomy through various tools, including skeletons, organ models, pathology specimens, virtual dissection, and histology slides. Lab modules are organized by body region. Co-enrollment with BIOSC 0041 is required.

**Course Delivery:**
Depending on University operating posture under covid-19 conditions, this lab will be delivered in the following ways.

- *Under **high** risk, this lab will be **100% online**.*
- *Under **elevated** and **guarded** risk, this lab will include **in-lab instruction** where all of the students who chose to attend classes in person will be able to attend each lab meeting.*
- *This course will include synchronous in-classroom instruction that remote students may participate in via Zoom and that will also be recorded for students who must be asynchronous.*
- *Course material will be provided on Canvas, regardless of the University operating posture.*
- *Any changes to modes of instruction or any course adjustments will be announced on Canvas as needed.*

**Required Software and Platforms:**
In this course we will be using the Internet to communicate with students attending remotely and of course, to connect to Canvas and McGraw-Hill Connect.

- *Sufficient bandwidth is critical at all times to be able to do well in this class.*
- *If connecting remotely, you need a good webcam and microphone.*
- *Canvas is the Learning Management System of the University of Pittsburgh.*
- *Synchronous course lectures will be recorded using Zoom and video will be house on Panopto in Canvas.*
- *Course recordings will be placed on Panopto for Asynchronous use.*
- *Tests will be administered using Top Hat.*

- *You will be able to access all of these platforms for the course through Canvas.*

**Teaching Methods:**
Depending on University operating posture under covid-19 conditions, this course will be delivered in the following ways.

- *Under elevated and guarded risk, this course will include in-lab instruction that remote students may participate in via Zoom and that will also be recorded.*
- *The classroom is large enough that all students may attend each class meeting.*
- *Under high risk, this course will be 100% online with Zoom meetings during class time that will be recorded.*
- *Changes to modes of instruction and course adjustments will be announced on Canvas as needed.*

**Course Content:**

- *This course includes short introductory lecture format and online resources obtained from McGraw-Hill and are connected through Canvas to the publisher's Connect website.*
- *The lectures will be provided in PowerPoint presentations that are placed on Canvas.*
- *Online quizzes will be administered using online using McGraw-Hill Connect.*
- *Assessment of the mastery of the material will be accomplished through 2 lab exams that are proctored remotely by TopHat. Exams are NOT open book. The questions are written by Dr. Gharaibeh for the purpose of the test and they are not found online. Answers will not be found on Chegg, Quizlet, etc. You are expected to adhere to high standards of integrity and be proctored by the system which does not allow tabs or multiple browsers and logins.*
- *Other online delivery will be given almost weekly by Connect, 3D4Medical App and other means.*
- *The seconds and final lab examination will be given during the week before the finals. Nov 19, 2020. The date will be confirmed during the semester.*

**Teaching Assistants:**
TBA
**Assignments are due in paper at the end of the lab**. Please scan the sheets and upload them into the assigned area Canvas. Use apps such as Office Lens and Scanner to take ***pictures in color*** and make PDF files.

**Lab Quizzes are assigned online** and are due midnight of the assigned date or 11:59 pm to avoid confusion with 12:00 noon.

**Required Textbook:** Lab material will be covered by a lab manual (Wise) and via Canvas access to your lecture textbook. Other material might be provided ad hoc via Canvas. Models and dissections used in lab will have pertinent keys made available in the lab room.
Bundled textbooks for lecture and lab are Human Anatomy 5th Edition by Kenneth Saladin (eBook or eTextbook would also work). ISBN: 9781260215175 and Human Anatomy Lab Manual by Eric Wise. Publisher: McGraw-Hill. Books may be purchased from campus bookstore or other sources. McGraw-Hill Connect may be purchased separately by a credit card. See Canvas for instructions.

**Teaching Methods:** This lab will complement the course lectures and will include some PowerPoint presentation format and online resources through the Blackboard website. You will work in lab in groups of 3-4 students to examine specimens, models, perform dissections, examine microscopic slides and perform other tasks as shown by Dr. Gharaibeh. Assessment of the mastery of the material will be accomplished through practical lab exams, quizzes and successful completion of the assignments.

**Learning Outcomes:** This lab course was designed to complement the human anatomy lecture (BIOSC 0041). By the end of this semester, a successful student should:

1. Learn the names and functions of anatomical structures studied in the lab.

2. Learn the proper use of a microscope and examine histological make up of human organs
3. Understand how organ systems work together by understanding their anatomy and function.
4. Understand and apply the clinical relevance of anatomic structure
5. Understand how imbalances in homeostasis and pathological conditions create disease.
6. Demonstrate ability to work in a team and communicate with peers using anatomical terminology and technical language used in biomedical fields.

**Lab Course Policies:**

1. **Assessment:** Student success will be evaluated based on retention of material, participation in class discussion, and integration of their knowledge to currently published relevant papers.
2. **Cell Phones:** Please turn your cell phones off before class and remove all ear buds. If your phone rings or I see you texting, I will ask you to leave the lecture hall. If you expect an important call, please make sure you excuse yourself before phone rings.
3. **Academic Integrity:** Cheating/plagiarism will not be tolerated. Students suspected of violating the University.
4. **Conduct:** Students, who in the opinion of the instructor, exhibit unprofessional, inappropriate and/or disruptive behavior in the classroom, will be dismissed from the class or lab. Re-admission to class will only occur upon the written recommendation of the Department. Cell phones should be turned off during class. Any form of cheating in the exam, copying, or collaboration in the term paper will be dealt with seriously. A student, who cheats will receive a grade of zero for that exam. Any repeat episode of cheating will result in an F grade for the course. Please read the Academic Integrity Code in the University guidelines on academic integrity.
5. **E-Mail Communication:** Each student is issued a University e-mail address (username@pitt.edu) upon admittance. This e-mail address may be used by the University for official communication with students. Students are expected to read e-mail sent to this account on a regular basis. Failure to read and react to University communications in a timely manner does not absolve the student from knowing and complying with the content of the communications. The University provides an e-mail forwarding service that allows students to read their e-mail via other service providers (e.g., Gmail, Hotmail, and Yahoo). Students that choose to forward their e-mail from their pitt.edu address to another address do so at their own risk. If e-mail is lost because of forwarding, it does not absolve the student from responding to official communications sent to their University e-mail address. To forward e-mail sent to your University account, go to http://accounts.pitt.edu, log into your account, click on Edit Forwarding Addresses, and follow the instructions on the page. Be sure to log out of your account when you have finished. (For the full E-mail Communication Policy, go to www.bc.pitt.edu/policies/policy/09/09-10-01.html).

## Academic Policies

### Academic Integrity

Students in this course will be expected to comply with the University of Pittsburgh's Policy on Academic Integrity. Any student suspected of violating this obligation for any reason during the semester will be required to participate in the procedural process, initiated at the instructor level, as outlined in the University Guidelines on Academic Integrity. This may include, but is not limited to, the confiscation of the examination of any individual suspected of violating University Policy. Furthermore, no student may bring any unauthorized materials to an exam, including dictionaries and programmable calculators.
To learn more about Academic Integrity, visit the Academic Integrity Guide for an overview of the topic. For hands-on practice, complete the Understanding and Avoiding Plagiarism tutorial.

### Turnitin

Students agree that by taking this course all required papers will be subject to submission for textual similarity review to Turnitin (via Canvas) for the detection of plagiarism. All submitted papers will be included as source

documents in the Turnitin reference database solely for the purpose of detecting plagiarism of such papers. Use of Turnitin page service is subject to the Usage Policy and Privacy Pledge posted on the Turnitin site.

**Disability Services**
If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and Disability Resources and Services (DRS), 140 William Pitt Union, (412) 648-7890, drsrecep@pitt.edu, (412) 228-5347 for P3 ASL users, as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

**Health and Safety Statement**
Our class is in Crawford 180. You will need to enter through the Langley Lobby, and you will need to scan your Pitt ID at the concierge station and be wearing a mask in order to enter the building. You will enter the classroom from the corridor and then you'll exit the lab from the exit door at the back of the room.

This semester, we continue to face unique challenges regarding COVID risk mitigation safety protocols. In order to participate in the hands-on component of BIOSC 0042, students must wear a mask (face covering) that completely covers the nose and mouth at all times while working in the lab.

If you forget to bring a mask when coming to class, we have disposable masks available for students to use in the lobby and probably in the classroom near the white board. We have a box of masks near the LCD panel in lab and we have lots of gloves.

As a reminder, the University requires that everyone wears a mask in class. This issue is University policy and I follow campus directive very carefully. I know it might be inconvenient, but the University requires that we all wear masks to stay safe. If you aren't willing to wear a mask, you will receive a grading penalty for not following safety protocols and I will need to contact the Student Conduct office. It is a lot of paperwork and records. There is no need for that. Just wear a mask.

**Accessibility**
The Canvas LMS platform was built using the most modern HTML and CSS technologies, and is committed to W3C's Web Accessibility Initiative and Section 508 guidelines. Specific details regarding individual feature compliance are documented and updated regularly.

**Diversity and Inclusion**
The University of Pittsburgh does not tolerate any form of discrimination, harassment, or retaliation based on disability, race, color, religion, national origin, ancestry, genetic information, marital status, familial status, sex, age, sexual orientation, veteran status or gender identity or other factors as stated in the University's Title IX policy. The University is committed to taking prompt action to end a hostile environment that interferes with the University's mission. For more information about policies, procedures, and practices, see: https://www.diversity.pitt.edu/civil-rights-title-ix-compliance/policies-procedures-and-practices.
I ask that everyone in the class strive to help ensure that other members of this class can learn in a supportive and respectful environment. If there are instances of the aforementioned issues, please contact the Title IX Coordinator, by calling 412-648-7860, or e-mailing titleixcoordinator@pitt.edu. Reports can also be filed online: https://www.diversity.pitt.edu/make-report/report-form. You may also choose to report this to a faculty/staff member; they are required to communicate this to the University's Office of Diversity and Inclusion. If you wish to maintain complete confidentiality, you may also contact the University Counseling Center (412-648-7930).

**Course evaluation:**

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| Exam I and II (Practical exam: models, scopes, dissections) | 250 pts ea. | 500 | 53% |
| 6 Quizzes (McGraw-Hill Connect online quizzes) | 20 pts ea. | 120 | 13% |
| 12 Assignments (tear off sheets or photocopied manual exercises) | 15 pts ea. | 180 | 19% |
| Poster infographic (long term project) | 50 pts | 50 | 5.3% |
| 5 In Lab TopHat Group quizzes | 10 pts ea. | 50 | 5.45% |
| Participation, activity, mask compliance and area cleanliness | 0-40 pts | 40 | 4.25% |
| | **Total** | **940** | **100%** |

**Make-up:** Make-up exams will be not allowed without a formal doctor's excuse in cases of illness or other paperwork in case of a personal circumstance.

**Grading Scale:**

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|---|---|---|---|---|---|
| A- | 90-92 | A | 93-96 | A+ | 97-100 |
| B- | 80-82 | B | 83-86 | B+ | 87-89 |
| C- | 70-72 | C | 73-76 | C+ | 77-79 |
| D- | 60-62 | D | 63-66 | D+ | 67-69 |
| F | 0-59 | | | | |

***Tentative Schedule of the lab meetings. Assignments and Quizzes dates can be ± one day to allow for completion of lab-required material by all students.**
****Note that lab exams are practical. Stations with specimens, microscopes, and dissections. They are mostly identification of a structure and naming its function. Not as the lecture test.**

| Lab | Date | Topic | Lab Content | Quiz / Assignment |
|---|---|---|---|---|
| 1 | 9/2 | Introduction, Organization of Body and Tissues | General introduction, Terminology, Microscope use and general histology | Assignment 1 (Exercises 1, 2, 4) |
| 2 | 9/9 | Integumentary system | Slides, skin model | Quiz 1<br>Assignment 2 (5) |
| 3 | 9/16 | Skeletal system 1 | Axial Skeleton | Assignment 3 (6, 7) |
| 4 | 9/23 | Skeletal system 2 | Appendicular Skeleton | Quiz 2<br>Assignment 4 (8, 9, 10) |
| 5 | 9/30 | Muscular system 1 | Axial Musculature | Assignment 5 (11, 12) |
| 6 | 10/7 | Muscular system 2 | Appendicular Musculature | Quiz 3<br>Assignment 6 (13, 14) |
| 7 | 10/14 | | **Lab Practical Exam I** | |
| 8 | 10/21 | Nervous system 1 | Sheep brain dissection. Spinal cord, spinal nerves, human brain, cranial nerves | Assignment 7 (15, 16) |
| 9 | 10/28 | Nervous system 2 | Sense organs, autonomic nervous system. Eye and Ear models | Quiz 4<br>Assignment 8 (17, 18) |
| 10 | 11/4 | Blood<br>Cardiovascular system 1 | Slides, heart anatomy, Pig heart dissection | Assignment 9 (20, 21) |
| 11 | 11/11 | Cardiovascular system 2<br>Lymphatic system | Blood vessels (arterial and venous systems) and lymphatic vessels | Quiz 5<br>Assignment 10 (22+23+24) |
| 12 | 11/18 | Respiratory system<br>Digestive system | Slides, respiratory system models. Lung demonstration | Quiz 6<br>Assignment 11 (25, 26) |
| 13 | 12/2 | Urinary system<br>Reproductive system | Slides, digestive system specimens<br>Slides, kidney and nephron models. Pig kidney dissection. Human male and female models. | Assignment 12 (27, 28, 29) |
| 14 | 12/9 | | **Lab Practical Exam II** | |