BIOS 4440 Syllabus

Spring 20XX

**Human Pathology, 3 credits**

**Lecture: On campus**

**Instructor Information**

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| --- | --- | --- |
| Instructor | Email | Office Hours & Location |
| Dr. Adam J. Decker | anatomy@gatech.edu | TBD 555 14th st |
| TA: TBA |  |  |

**General Information**

**Description:**

## This course will link our understanding of normal anatomic morphology to the aberrant. Once the leap is made to understand abnormal structures, we can see how treatments for certain diseases and disorders are possible. The course provides a comprehensive medical school-level overview of general and systemic anatomic human pathology. The course will focus on select diseases, their etiology, pathogenesis, morphologic changes, clinical manifestations, and the current effective treatments offered. A sound foundation of fundamental human anatomy is required.

## Prerequisite: BIOL/APPH 3753 (Human Anatomy)

## Course Goals and Learning Outcomes

By the completion of this course, you should be able to.

1. Acquire a working knowledge of general and anatomic pathological terminology.
2. Use correct vocabulary when talking with other students of pathology and health care providers
3. Understand immune cell structure and function
4. Understand molecular and cellular basis for inflammatory disease states
5. Understand the role of medical imaging in identifying certain pathological lesions
6. Describe the etiology, pathogenesis, morphologic changes and clinical manifestations of select diseases associated with the vascular system including all major cardiac conditions, respiratory system, musculoskeletal system, urinary system, endocrine system and reproductive system.
7. Problem solve when presented with various clinical scenarios
8. Analyze laboratory findings (i.e. blood and urine) in certain diseases
9. Describe the changes that take place at the histological level and how they contribute to organ dysfunction and possible failure of organ systems

**Course Requirements & Grading**

3 Lecture Exams (in class) 300 points

5 Terminology Quizzes (online) 100 points

4 Case studies 100 points

Final Exam (cumulative) 200 points

Total possible points for the course **700 points**

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| --- |
| 626.5-700 = A |
| 556.5-626.4 = B |
| 486.5-556.4 = C |
| 416.5-486.4 = D |
| < 416 = F |

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**Description of Graded Components**

The first terminology quiz will be given during the second week of class. I will send out an announcement with more details the closer we get. This will assess your knowledge of key pathological anatomical root words we will use throughout the semester. Please see the course calendar for the remaining quiz dates. There will be three in-person lecture exams. These exams will cover content discussed in the lecture notes. Four clinical case studies will focus on applying the pathology we learn to real-life clinical cases. These are to be submitted via Canvas.

The in-person final exam is comprehensive and will cover content from day one.

**Grading Scale**

Your final grade will be assigned as a letter grade according to the following scale:

A 90-100%

B 80-89%

C 70-79%

D 60-69%

F 0-59%

According to policy, grades at Georgia Tech are interpreted as follows:

A Excellent (4 quality points per credit hour)

B Good (3 quality points per credit hour)

C Satisfactory (2 quality points per credit hour)

D Passing (1 quality point per credit hour)

F Failure (0 quality points per credit hour)

See <http://registrar.gatech.edu/info/grading-system> for more information about the grading system at Georgia Tech.]

**Course Materials**

**Recommended Course Text:** [Robbins & Cotran Pathologic Basis of Disease](https://www.eu.elsevierhealth.com/robbins-cotran-pathologic-basis-of-disease-9780323531139.html), 11th edition.

ISBN: 9780323531139

## Course Website and Other Classroom Management Tools

This semester we will be using Canvas for all course content

**Course Expectations & Guidelines**

## Final course grades are assigned objectively and without regard to a student's academic standing or the requirements of other departments or programs. Each student must see that they are safely above any applicable minimum requirements. Appeals regarding a student's failure to meet such requirements should be directed to the department or program that demands them and not to the BIOS 4440 staff. No extra credit projects (other than the bonus points given in the lecture) to raise a final grade will be accepted.

## If, on your first lecture exam, you get a grade lower than you need in the course, do something about it right away. The rest of the exams will be challenging. Go over your exam carefully to see why you missed questions. Do this after every exam, but especially if your score is less than expected.

## All exams will be available to review with your TAs up to two weeks after the exam. After two weeks, that particular exam cannot be reviewed.

## The BIOL 4440 staff members are here to help you succeed. Remember, it's always better to seek help early in the course rather than waiting until just before the last exam. Taking control of your academic progress is key to your success.

## Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. For information on Georgia Tech's Academic Honor Code, please visit http://www.catalog.gatech.edu/policies/honor-code/ or <http://www.catalog.gatech.edu/rules/18/>.

Any student suspected of cheating or plagiarizing on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

## Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404)894-2563 or <http://disabilityservices.gatech.edu/>, as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

## Attendance and/or Participation

Attendance is critical in the success in human pathology. The course moves at a rapid pace and it is expected that all students be present. If you foresee that you will miss a lecture, please email either myself or the TA. It will be up to you to seek out what information was missed.

## Extensions, Late Assignments, & Re-Scheduled/Missed Exams

**Make up exams** will be considered only in the case of an emergency (documentation required) or if prior arrangements have been made.

In the case of an emergency, you must contact the instructor within 24 hours and provide verifiable documentation of the emergency.

If you know you will miss a quiz or exam because of a school sponsored event (e.g. athletic event, workshop, etc.) or an extremely important personal issue, you need to contact me at least 1 week prior to the quiz or exam and make necessary arrangements to

the missed work. In most cases I will ask you to complete the work *before* your absence.

NO late submissions accepted on assignments without verifiable documentation.

## Student-Faculty Expectations Agreement

At Georgia Tech we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. See <http://www.catalog.gatech.edu/rules/22/> for an articulation of some basic expectation that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

## Student Use of Mobile Devices in the Classroom

There is to be NO video recording of any lectures. Lectures may be taped via audio. NO cell phone use during class. If you need to make a call, politely exit the back of the lecture hall.

## Additional Course Policies

* No food or drink in classroom
* No video or photography taken
* No talking
* Bring Buzz card to all exams

**Campus Resources for Students**

In your time at Georgia Tech, you may find yourself in need of support. Below you will find some resources to support you both as a student and as a person.

**Academic support**

* Center for Academic Success <http://success.gatech.edu>
  + 1-to-1 tutoring <http://success.gatech.edu/1-1-tutoring>
  + Peer-Led Undergraduate Study (PLUS) <http://success.gatech.edu/tutoring/plus>
  + Academic coaching http://success.gatech.edu/coaching
* Residence Life's Learning Assistance Program

<https://housing.gatech.edu/learning-assistance-program>

* + Drop-in tutoring for many 1000 level courses
* OMED: Educational Services (<http://omed.gatech.edu/programs/academic-support>)
  + Group study sessions and tutoring programs
* Communication Center (<http://www.communicationcenter.gatech.edu>)
  + Individualized help with writing and multimedia projects
* Academic advisors for your major

<http://advising.gatech.edu/>

**Personal Support**

Georgia Tech Resources

* The Office of the Dean of Students: <http://studentlife.gatech.edu/content/services>; **404-894-6367**; Smithgall Student Services Building 2nd floor
  + You also may request assistance at <https://gatech-advocate.symplicity.com/care_report/index.php/pid383662?>
* Counseling Center: <http://counseling.gatech.edu>; **404-894-2575**; Smithgall Student Services Building 2nd floor
  + Services include short-term individual counseling, group counseling, couples counseling, testing and assessment, referral services, and crisis intervention. Their website also includes links to state and national resources.
  + *Students in crisis may walk in during business hours (8am-5pm, Monday through Friday) or contact the counselor on call after hours at* ***404-894-2204****.*
* Students’ Temporary Assistance and Resources (STAR): <http://studentlife.gatech.edu/content/need-help>
  + Can assist with interview clothing, food, and housing needs.
* Stamps Health Services: <https://health.gatech.edu>; **404-894-1420**
  + Primary care, pharmacy, women’s health, psychiatry, immunization and allergy, health promotion, and nutrition
* OMED: Educational Services: <http://www.omed.gatech.edu>
* **Women’s Resource Center:** [**http://www.womenscenter.gatech.edu**](http://www.womenscenter.gatech.edu)**; 404-385-0230**
* **LGBTQIA Resource Center:** [**http://lgbtqia.gatech.edu/**](http://lgbtqia.gatech.edu/)**; 404-385-2679**
* **Veteran’s Resource Center:** [**http://veterans.gatech.edu/**](http://veterans.gatech.edu/)**; 404-385-2067**
* **Georgia Tech Police:** **404-894-2500**

**Statement of Intent for Inclusivity**

As a member of the Georgia Tech community, I am committed to creating a learning environment in which all of my students feel safe and included. Because we are individuals with varying needs, I am reliant on your feedback to achieve this goal. To that end, I invite you to enter into dialogue with me about the things I can stop, start, and continue doing to make my classroom an environment in which every student feels valued and can engage actively in our learning community.

Class Calendar:

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| Date | Topic |  |
| Week #1  1/8  1/10 | Orientation  A case study  General pathology |  |
| Week #2  1/15 no class  1/17 | General pathology  Terminology quiz #1 (abcess-bronchoscopy)  Released 1/17 8am and due 11:59pm |  |
| Week #3  1/22  1/24 | General Pathology  Inflammatory process and cell adaptation  Case Study 1 due 1/24 11:59pm |  |
| Week #4  1/29  1/31 | Inflammatory process and cell adaptation  Exam #1 1/31 (in class) |  |
| Week #5  2/5  2/7 | Neoplastic Diseases  Terminology quiz #2 (cachexia-exudate)  Released 2/7 8am and due 11:59pm |  |
| Week #6  2/12  2/14 | Cardiac pathology I |  |
| Week #7  2/19  2/21 | Cardiac pathology I |  |
| Week #8  2/26  2/28 | Cardiac pathology II  Terminology quiz #3 (fibrillation-ischemia)  released 2/28  Case Study 2 due 2/28 11:59pm |  |
| Week #9  3/4  3/6 | Exam #2 3/6 (in class)  Vascular pathology |  |
| Week #10  3/11  3/13 | Pulmonary pathology  Terminology quiz #4 (jaundice-pathognomonic)  Released 3/13 8am and due 11:59pm |  |
| Week #11  3/18  3/22 | Spring break  No classes |  |
| Week #12  3/25  3/27 | Musculoskeletal pathology  Case Study 3 due 4/5 11:59pm |  |
| Week #13  4/1  4/3 | 4/1 Douglas Parker Emory med school  Skeletal pathology  Terminology quiz #5 (perfusion-volvulus)  Released 4/3 8am and due 11:59pm |  |
| Week #14  4/8  4/10 | Skeletal pathology  Respiratory pathology |  |
| 4/15  4/17  4/19 | Respiratory pathology  Exam #3 4/17(in class)  Endocrine pathology  Case study 4 due 4/22 11:59pm |  |
| **4/26** | **In Person Final exam 6pm-8:50pm** |  |
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|  | **Schedule is tentative and may change** |  |