

BIMD 220L: Human Anatomy & Physiology I Lab

Self-Paced Enroll Anytime Online Course

This is an unofficial syllabus and is subject to change at any time. The official course syllabus is posted in Blackboard and available upon request.

Course Information

Credits 1 undergraduate credit
Corequisites BIMD 220

About the Professor

Instructor Dr. Amanda Haage (she/hers)
Email See the Blackboard course for contact information and the instructor bio.

*If you have any course questions prior to enrollment, please email und.online@und.edu

I am committed to the following teaching philosophy statements. I expect to be held accountable to these principles.

- Everyone can learn the content. Science is for everyone.
- My classroom is a safe space for all students. This is essential to achieve an environment where everyone can learn.
- More important than learning detailed content is learning how to think critically and learning how to learn for a lifetime.
- My students are adults with complex lives. I do not need to know their specific situation to demonstrate compassion and advocate on their behalf.
- Science is not objective or neutral. It exists as part of society as a whole and has contributed both positively and negatively to our culture. Science education cannot stand alone without humanities.
- Grades are not the only way to demonstrate competency.
- All teaching techniques used in my courses will be evidence-based. All aspects of my courses will be studied critically and reflected upon, providing room for revision.

Course Description and Goals

BIMD 220L (1 credit) and BIMD 221L (1 credit) accompany their 3 credit lecture components, creating a complete 8 credit survey of the anatomy and physiology of the major human organ systems and the foundational concepts required to understand them. BIMD 220L covers beginner material on introductory A&P, cells, and tissues, as well as advancing through the skin, skeletal, muscle and nervous organ systems. BIMD 221L is a more advanced study of the endocrine, lymphatic, cardiovascular, respiratory, digestive, urinary, and reproductive systems. The labs focus on quantitative literacy, histology, and use of human cadavers. Together the lecture and lab courses are designed to meet field standards using [HAPS learning outcomes and goals](#).

Lab Specific Goals

1. Students will demonstrate laboratory procedures, including the interpretation of various types of data, used to examine anatomical structures and physiological functions of each organ system.

2. Students will synthesize ideas to make a connection between knowledge of anatomy and physiology and diverse real-world situations.

Textbook and Course Materials

TopHat

These courses will be managed mostly in TopHat. TopHat works through a student-paid subscription service. Students will be required to create an account and pay ~\$30. Much of the cost carries over for both courses if taken in sequence & you do not have to pay an additional "classroom" fee if you are also registered for lecture.

TopHat Classroom (assignments, lectures, etc.) = \$30/4 months or \$48/12 months or \$96/4 year

These prices reflect payment directly to TopHat, if purchased through the UND bookstore there is a mark-up.

To enroll in TopHat for these courses go to tophat.com and make an account. From your course lobby add the following course: **BIMD 220L SPEA** with join code **210081**

If you need help, you can visit the [Top Hat Overview](#) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system. Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email (support@tophat.com), the in-app support button, or by calling 1-888-663-5491.

Carolina Dissection Kits

For lab you are also required to purchase at home dissection kits. These are ~\$60. They are safe to use and dispose of in your home. They may not ship to every country. Dr. Haage does not provide alternative assignments to the dissection kits for whatever reason. You may still pass the class without them, but probably won't get an A.

Here is the link for ordering: <https://www.carolina.com/catalog/detail.jsp?prodId=582355>

Technical Requirements

The [UND Technical Support webpage](#) contains information on your UND email and how to download a free version of Microsoft Office.






















- Students are expected to use their official UND email in the course.
- [View the basic technical requirements](#) for every online course.

Course Environment

Similar to their lecture counterparts, these courses will use the evidence based best practices of a flipped classroom and active learning. This means at no point will students sit through an extended lecture on a topic. Learning is work and involves student participation.

The lab courses also utilize the badge progression model, which is a method of gamification for learning. Essentially the content of these courses is divided into easily identifiable units called badges. By completing BIMD 220 + 221 students will work their way through 14 content badges that represent all the major body systems. Students will start at the Beginner level in BIMD 220, progress through to Advanced at the end of BIMD 220, and finally finish at Scholar when they have completed BIMD 221. This gives students a more visual way to track their progress.

Each content badge has corresponding lab activities. These are described below in "assessments and grading." The specific type of activities per badge are shown in the next image.

	AnatomyTV & Dissections	Histology Labs	Biometric Data
Intro 			
Cells 			
Tissues 			
Integumentary 			
Skeletal 			
Muscular 	 		
Nervous 	 		

Earning a certain threshold of points in each activity type through the sequence of labs gives students the opportunity to earn lab specific badges detailed in the next image. Students will be awarded badges by [UND's Teaching Transformation and Development Academy \(TTaDA\)](#) via an email sent to their official UND email account. They will be asked to accept this badge, which will give them a permanent Acclaim account where they have URL they can include in their CVs/Resumes or share their badges to various social media outlets. This profile link should be included with syllabi in determining transfer equivalence. Earning badges may open opportunities for students in the future and will be used by Dr. H in any letter of recommendation requests. A complete list of these opportunities and the specific criteria to earn each badge is described on the Badge Criteria page, in the "start here" folder in their TopHat course.



Distant Dissector

Respectfully uses 3D models & animal specimens to further their knowledge of anatomy



Histology Scholar

Demonstrates foundational knowledge of microanatomy



Data Driven

Interprets, manipulates, and visualizes real-life biometric data

Assessment and Grading

There are no lab exams. Each content badge has one or more of the following accompanying lab elements located in TopHat or Blackboard:

- **AnatomyTV Labs** – These lab activities will require students to interact with an anatomy 3D modeling software called AnatomyTV. Students will have free access to this through their UND credentials and the UND School of Medicine and Health Sciences Library. Students will be asked to label specific structures demonstrating a knowledge of 3D anatomy. Some of these labs will include remote animal dissections.
- **Dissection Kits** – Remote animal dissection kits can be ordered at the link above through Carolina Biological supply. Some of the AnatomyTV labs will require students to submit images of their dissections with these kits. NO alternative assignments to the use of these kits will be provide.
- **Histology Labs** – These lab activities will ask students to review series of labeled histology images before asking them questions about relevant microanatomy
- **Biometric Data Labs** – These lab activities will focus on quantitative literacy. Students will track their own physiological data or use existing data sets to further their understanding of physiological concepts. Relevant primary literature will also be incorporated.
- **Reflections** – After completing the lab activities for each badge students will be asked to complete a short reflection essay to promote metacognitive thinking. These also serve as grading triggers for the entire badge content in lab.

Grades will be earned by reaching a specific point total in this course. All points are weighted the same. There will be a total of 427 points available to earn. At the end of the course, if a student has 374.9 points they will receive a B. There will be no bumps or rounding to grades at the end of the semester. NO EXCEPTIONS WILL BE MADE TO THIS GRADING. Students are building up points throughout the course, working towards their goal grade.

Grading Scale

A	427-375 points
B	374.9-340 points
C	339.9-300 points
D	299.9-275 points
F	Less than 275 points

Points will be earned through a variety of mechanisms (see assignments above). The total points for content assignments per badge is broken down here. The badges with a higher point total do have a higher amount of content associated with them and students should expect to dedicate more time to them. Remember you will ONLY be completing 7 content badges per course.

Content Assignments	420	
Reflections	7	
Introduction	70	
Cells	35	
Tissues	35	= 420
Skin	70	
Skeletal	70	
Muscular	70	
Nervous	70	

Grading Timeline

I will grade 1 lesson area/badge per person per week (usually on Tuesdays per my office hours) - If you submit the introduction lab items and the cells lab items over the weekend you can expect the introduction lab items to be graded that Tuesday and the cells lab items to be graded the following Tuesday.

Per the grading policy above the minimum time you can complete this course in is 7 weeks.

Course-Specific Policies & Resources

About UND Self-Paced Enroll Anytime Courses

You have 3 to 9 months to complete this course from the time of your enrollment. You may work at your own pace and complete lessons/exams on your own schedule, submitting up to 3 per week for grading.

After you finish your course, your final grade will be posted in Blackboard. Please allow 3-5 business days for your final grade to appear on your transcript in Campus Connection. You will receive a confirmation email from the Enroll Anytime staff once the final grade is officially posted on your transcript. You may then order an official transcript, if desired.

If you have an administrative question regarding course enrollment dates, extensions, withdrawals, questions regarding your transcript, or need exam assistance, please contact the Office of Extended Learning at und.courses@UND.edu or 701-777-0488.

Questions regarding coursework should be directed to the instructor, see best way to contact above.

Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email (support@tophat.com), the in-app support button, or by calling 1-888-663-5491.

For technical support including username and password help, assignment submission, or other technical assistance in the course, contact University Information Technology.

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Student Resources

Many services are available to online students such as writing assistance from the UND Writing Center, free online tutoring, and more. Visit the Student Resources page for more information. You can also access the resources webpage from the *Student Resources* link in your Blackboard course menu.

Plagiarism & Academic Integrity

Please see the university policy on academic integrity below. In this class specifically, you will be provided resources on identifying plagiarism in your work in the Course FAQs on TopHat. If your work is flagged for any type of plagiarism, you will receive zero points for that particular assignment. You will also be required to take an additional plagiarism quiz (not worth points) before any of your further work is graded. If a repeated incident of plagiarism is found the student will be reported to the Office of Students Rights and Responsibilities (OSRR) and will receive zero points on the entire content badge. There will be no chance to make up these points.

If your work is flagged for verbatim copying from an outside source or from another student, you will be immediately reported to the OSRR and you will receive zero points on the entire content badge. Dr. H will not spend time determining which student is at fault in these cases, all parties will be treated the same. Several essay questions used in this course are based on widely available publisher texts. Copying a publisher provided answer is verbatim copying and will be treated as such.

In general assignments and essays in this course are designed to make you think, not google.

Language & Interactions

My classroom is a safe space for all students. This course will tackle topics around human diversity that may be difficult for some, but it is essential that these conversations be respectful at all times. Any breach in respectful conduct towards me, the TAs, and/or another student will lead to the immediate removal from the course, a report delivered to the respective advisor/program, and an "F" in the course. A breach in respectful conduct may include, but is not limited to: the use of racial/ethnic/LGBTQA+/ableist slurs, frequent use of other [dehumanizing language](#), sexual explicit comments or advances, repeated misuse of [pronouns or deadnames](#), repeated and purposeful [microaggressions](#) such as refusing to learn how to pronounce someone's name, and specific exclusion of a team member.

If you experience any situation that makes you feel in the slightest bit unsafe in this course you are encouraged to reach out to Dr. Haage. You may also report a Bias-Motivated incident to UND in multiple ways, [including anonymously](#).

University of North Dakota Policies & Resources

Academic Integrity

Academic integrity is a serious matter, and any deviations from appropriate behavior will be dealt with strongly. At the discretion of the professor, situations of concern may be dealt with as a scholastic matter or a disciplinary matter.

As a scholastic matter, the professor has the discretion to determine appropriate penalties to the student's workload or grade, but the situation may be resolved without involving many individuals. An alternative is to treat the situation as a disciplinary matter, which can result in suspension from the University, or have lesser penalties. Be aware that I view this as a very serious matter, and will have little tolerance of or sympathy for questionable practices. A student who attempts to obtain credit for work that is not their own (whether that be on a paper, quiz, homework assignment, exam, etc.) will likely receive a failing grade for that item of work, and at the professor's discretion, may also receive a failing grade in the course. Read more in the [Code of Student Life](#).

Disability Support and Medical Services

The University of North Dakota is committed to providing equal access to students with documented disabilities. To ensure access to your classes and program, please contact [Disability Services for Students](#) (DSS) to engage in a confidential discussion about accommodations for the classroom, clinical and/or online course settings. Accommodations are not provided retroactively. Students are encouraged to register with DSS at the start of their class/program. More information can be obtained by email UND.dss@UND.edu or by phone at 701.777.2664.

If you receive an exam accommodation from Disability Services for Students, share the letter with the Office of Extended Learning at UND.courses@UND.edu.

Religious Accommodations

UND offers religious accommodations, which are reasonable changes in the academic environment that enable a student to practice or observe a sincerely held religious belief without undue hardship on the University. Examples include time for prayer or the ability to attend religious events or observe a religious holiday. To request an accommodation, complete [student religious accommodation request form](#). If you have any questions, you may contact the [Equal Opportunity & Title IX Office](#).

Pregnancy Accommodations

Students who need assistance with academic adjustments related to pregnancy or childbirth may contact the Equal Opportunity & Title IX Office or Academic Affairs to learn about your options. Additional information and services may be found at [Pregnancy Resources](#).

Resolution of Problems

Should a problem occur, you should speak to your instructor first. If the problem continues to be unresolved, go to the department chair, and next to the college Dean. Should the problem persist, you have the right to go to the Provost next, and then to the President.

Notice of Nondiscrimination

It is the policy of the University of North Dakota that no person shall be discriminated against because of race, religion, age, color, gender, disability, national origin, creed, sexual orientation, gender identity, genetic information, marital status, veteran's status, or political belief or affiliation and the equal opportunity and access to facilities shall be available to all. Concerns regarding Title IX, Title VI, Title VII, ADA, and Section 504 may be addressed to Donna Smith, Assistant Vice President for Equal Opportunity & Title IX and Title IX/ADA Coordinator, by calling 701.777.4171 or emailing UND.EO.TitleIX@UND.edu. Concerns can also be directed to the Office for Civil Rights, U.S. Department of Education, 230 S. Dearborn St., 37th Floor, Chicago, IL 60604, or any other federal agency.

Reporting Discrimination, Harassment, or Sexual Misconduct

If you or a friend has experienced sexual misconduct, such as sexual harassment, sexual assault, domestic violence, dating violence, or stalking, please contact the [Equal Opportunity & Title IX Office](#) or UND's Title IX Coordinator, Donna Smith, for assistance: 701.777.4171; donna.smith@UND.edu. You may also contact the Equal Opportunity & Title IX office if you or a friend has experienced discrimination or harassment based on a protected class, such as race, color, national origin, religion, sex, age, disability, sexual orientation, gender identity, genetic information, pregnancy, marital or parental status, veteran's status, or political belief or affiliation.

Faculty Reporting Obligations Regarding Discrimination, Harassment, and Sexual Misconduct

It is important for students to understand that faculty are required to share with UND's Title IX Coordinator any incidents of sexual misconduct or of discrimination or harassment based on a protected class they become aware of, even if those incidents occurred in the past or are disclosed as part of a class assignment. This does not mean an investigation will occur if the student does not want that, but it does allow UND to provide resources to help the student continue to be successful at UND. If you have been impacted by discrimination, harassment, or sexual misconduct, you can find information about confidential support services at the [Equal Opportunity & Title IX Office](#).

UND Cares Program

The [UND Cares program](#) seeks to educate faculty, staff and students on how to recognize warning signs that indicate a student is in distress.

How to Seek Help When in Distress

We know that while college is a wonderful time for most students, some students may struggle. You may experience students in distress on campus, in your classroom, in your home, and within residence halls. Distressed students may initially seek assistance from faculty, staff members, their parents, and other students. In addition to the support we can provide to each other, there are also professional support services available to students on campus through the Dean of Students and University Counseling Center. Both staffs are available to consult with you about getting help or providing a friend with the help that he or she may need. Visit the [UND Cares program](#) webpage for more additional information.

How to Recognize When a Student is in Distress

The term “distressed” can mean any of the following:

- Student has significant changes in eating, sleeping, grooming, spending, or other daily activities.
- Student has cut off or minimized contact with family or friends.
- Student has significant changes in performance or involvement in academics, sports, extracurricular, or social activities.
- Student describes problems (missing class, not remembering, destructive behavior) that result from experiences with drinking or drugs.
- Student is acting withdrawn, volatile, tearful, etc.
- Student is acting out of character or differently than usual.
- Student is talking explicitly about hopelessness or suicide.
- Student has difficulty concentrating or difficulty carrying on normal conversation.
- Student has excessive dependence on others for company or support.
- Student reports feeling out of control of one’s emotions, thoughts, or behaviors.

Land Acknowledgement Statement

Today, the University of North Dakota rests on the ancestral lands of the Pembina and Red Lake Bands of Ojibwe and the Dakota Oyate - presently existing as composite parts of the Red Lake, Turtle Mountain, White Earth Bands, and the Dakota Tribes of Minnesota and North Dakota.

We acknowledge the people who resided here for generations and recognize that the spirit of the Ojibwe and Oyate people permeates this land. As a university community, we will continue to build upon our relations with the First Nations of the State of North Dakota - the Mandan, Hidatsa, and Arikara Nation, Sisseton-Wahpeton Oyate Nation, Spirit Lake Nation, Standing Rock Sioux Tribe, and Turtle Mountain Band of Chippewa Indians.

Food for Thought

All current UND students are welcome to visit our new [Food for Thought Food Pantry](#), located on the first floor of Wilkerson Commons in Room 169. *Food For Thought* provides nonperishable food items and personal hygiene products to students in need.

University Counseling Center

Private and confidential counseling services are available to all current UND students through the [University Counseling Center](#). This includes self-assessment materials and a 24/7 emotional support through FIRSTLINK at 701-235-7335. The challenges of the global Covid-19 pandemic may exacerbate mental health issues for many, it is important to remember you are not alone.