

BIMD 220: Human Anatomy & Physiology I

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 3 undergraduate credits

Pre or Co Requisites Either [BIOL 150](#) and [BIOL 150L](#) OR [CHEM 116](#) and [CHEM 116L](#) OR [CHEM 121](#) and [CHEM 121L](#)

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 220 (3 credits) and BIMD 221 (3 credits) together are a complete survey of the anatomy and physiology of the major human organ systems and the foundational concepts required to understand them. BIMD 220 covers beginner material on introductory A&P, cells, and tissues, as well as advancing through the skin, skeletal, muscle and nervous organ systems. BIMD 221 is a more advanced study of the endocrine, lymphatic, cardiovascular, respiratory, digestive, urinary, and reproductive systems. Each concept is presented through the lens of a diverse human population and both BIMD 220 and 221 are validated as essential studies special emphasis courses covering "The Diversity of Human Experience" topic. Together the courses are designed to meet field standards using the [HAPS learning outcomes and goals](#).

From UND Essential Studies - "As a Diversity of Human Experience course, at least 1/3 of this course's focus and graded assignments will help you recognize the existence of cultural differences and the complexity of social identities, understand that our worldviews are constructed through our identities and cultures, and give you defined opportunities to reflect on your own identity, culture, and worldview."

Content Integration Goals

1. Use appropriate terminology to discuss anatomy and physiology.

2. Identify anatomical structures and describe the complex interrelationships between structure and function.
3. Explain how body systems work together to maintain homeostasis.
4. Explain how variability in the human population produces ranges of values considered "normal" for body parameters and how this contributes to the diversity of human experience.
5. Propose evidence-based hypotheses to explain physiological responses or the functions of anatomical structures.
6. Apply knowledge of anatomy and physiology to real-world situations.
7. Recognize and apply patterns that unify, organize, and simplify the abundant detail of anatomy and physiology.

Skill Development Goals

8. Apply information literacy skills to access and evaluate peer-reviewed resources.
9. Approach and examine anatomy and physiology issues from an evidence-based perspective.
10. Adapt information to effectively communicate with different audiences.
11. Recognize that our individual differences (ethnicity, gender, culture, etc.) are both influenced by individual anatomy and physiology differences and shapes our understanding the field.
12. Foster respect for individuals across differences within educational and professional settings.

The course environment section below describes how a badging progression model is used to identify, visualize, and communicate both the content integration and skill development goals.

Textbook and Course Materials

These courses will be managed mostly in TopHat. This includes all assignments and the textbook material. TopHat works through a student-paid subscription service. Students will be required to create an account and pay ~\$130. Much of the cost carries over for both courses if taken in sequence. Here is a breakdown of what you are getting:

Code	Bookstore Price	Direct TopHat Price
TopHat Classroom	\$40/ 4 months	\$30/4 months or \$48/ 12 months
Anatomy & Physiology in Context	\$93.50	\$70

You will be using TopHat for BOTH 220/221, so the most efficient way to do this is to buy the 12-month classroom subscription from TopHat directly (prompted when you go to enroll in your TopHat course). "Anatomy & Physiology in Context" is the virtual textbook for the course that you only need to purchase once and will have lifetime access to. **The bookstore does charge extra, but it may be necessary based on your financial aid.**

To enroll in TopHat for these courses go to tophat.com and make an account. From your course lobby add the following course: **BIMD 220 SPEA** with join code **587301**

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.

Other reading materials may be necessary for some optional assignments. These may be available through the SMHS Library or the Chester Fritz Library, but they do have limited copies.

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.

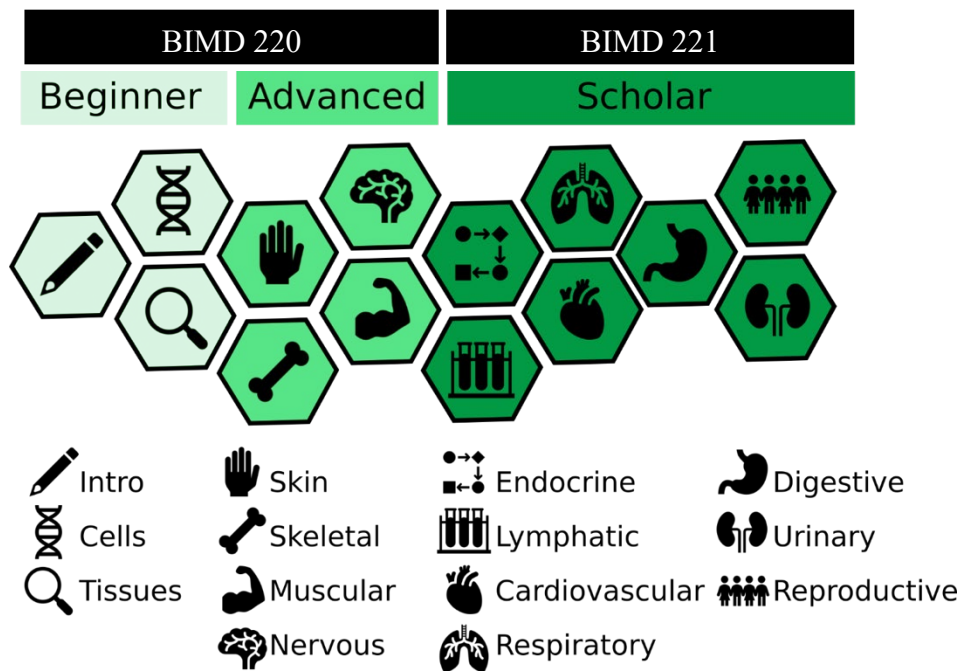
- [View the basic technical requirements](#) for every online course.

Course Environment

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.

These courses are also unique in their organization. They use a 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 includes multiple assignment types and an exam. These are described below in “assessments and grading.” For SPEA sections, students move through these assignments and exams at their own pace, completing the content badges individually.



While students move through the content badges, there are additional skill badges to be earned. These have specific criteria that award students for how they choose to interact with the course content and are designed to integrate multiple content areas, demonstrating the unifying patterns of anatomy and physiology. Most of these badges involve completing a certain number of assignment types with a semester long project. The idea is that these skill badges award specific student skill growth that is not normally recognized by grades alone. The teamwork badge is only available to students who complete an in-person section.



Metacognitive Learner

Sets achievable goals and incorporates self-reflection and course resources into their plans



Clinical Reasoning

Connects A&P knowledge to diverse real-world health situations



Cross-Cultural

Considers how diverse experiences and worldviews influence ones relationship with science & medicine



Anatomical Artist

Appriciates the history & art of studying human anatomy



Science for Everyone

Identifies the role a diverse group of scientists have played in creating the science of A&P



Teamwork

Recognized as an effective member of a team and learning community

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 "resources lecture" folder in their TopHat course.

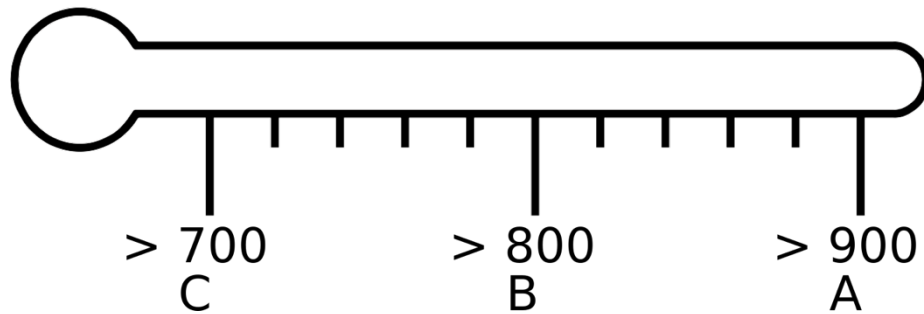
Assessment and Grading

Each badge will consist of the following elements/assignments located in TopHat:

- **Things to Knows** – A content assignment not worth points, but lists the learning objectives and anatomical terms students should know for the badge. The assignments to be completed, point totals, and schedule is also listed.
- **Textbook Assignments** – This course uses an active virtual textbook. Textbook content assignments are the only textbook required for students, which consists of readings, images, and videos interspersed with practice questions. These questions will always only be worth participation points.
- **Lecture Series** – These content assignments consist of short lectures recorded by Dr. Haage broken down by objective, followed by practice questions. Each question in these assignments are worth 0.5 participation points and 0.5 correctness points.
- **Picture Essays** – These content assignments require students to draw and label various anatomical structures by hand and upload a .jpg .png or .pdf file. These assignments are always worth correctness points.
- **Case Studies** – These content assignments focus on application of A&P content to various illnesses. They consist of readings, images, and videos interspersed with practice questions. They are mostly correctness points but may ask for students to participate in opinion style questions.
- **Scientist Profiles** – These content assignments spotlight one or a few relevant scientists, including aspects of their identities and the science they have contributed. They have readings, images, and videos interspersed with practice questions. They are mostly correctness points but may ask for students to participate in opinion style questions.
- **Culture & Med Assignments** – These content assignments focus on application of A&P content to various diversity contexts including conversations about race, gender, and disability. They have readings, images, and videos interspersed with practice questions. They are mostly correctness points but may ask for students to participate in opinion style questions.

- **Reflections** – At the end of 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.
- **Exams** – Each content badge has an exam. That means this course has 7 exams. Exams are video proctored and consist of 30 multiple choice questions and 1 essay question. Students are provided 3 possible essay questions ahead of time to be prepared, but will be assigned one at random on the exam. No outside resources are allowed on the exams

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 1055 points available to earn. At the end of the course, if a student has 899.9 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.** Another way to think of this is a thermometer type goal pictured here. Students are building up points throughout the course, working towards their goal grade.



Grading Scale

A	1055-900 points
B	899.9-800 points
C	799.9-700 points
D	699.9-600 points
F	Less than 600 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.

Exams	245	
Badge Assignments	670	
Projects	100	
Reflections	40	
Introduction	80	= 670
Cells	85	
Tissues	85	
Integumentary	95	
Skeletal	105	
Muscular	100	
Nervous	120	

Grading Timeline

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

Per the grading policy above the minimum time you can complete this course in is 8 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.

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.

Exam Proctoring

Exams will be proctored in blackboard using a lockdown browser accompanied by Yuja recordings of students from their webcams. Exams will also be timed. Exams will not be graded without the Yuja upload to the course folder. Exams may also not be graded depending on Dr. H's discretion due to video contents. If students experience a disruption while taking their exam – i.e. had to grab a charger, mom walked in, etc. they should just message Dr. H about it afterwards. These disruptions are generally fine unless there are other concerns.

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.