

Western University  
Faculty of Health Sciences  
School of Kinesiology, School of Health Studies

**KIN 3222B / HS 3300B**  
**Anatomy of the Human Body: A Description of Systemic Structure & Function**  
**Winter 2022**

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<p><b>Instructor:</b> <b>Dr. Katelyn Wood, PhD</b> email: <a href="mailto:katelyn.wood@uwo.ca">katelyn.wood@uwo.ca</a></p> <p><b>Office Hours:</b> By appointment only, via Zoom</p> <p><b>TAs:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Heather Resvick</td> <td style="width: 50%;">sstretto@uwo.ca</td> </tr> <tr> <td>Nicole Peters</td> <td>npeter23@uwo.ca</td> </tr> <tr> <td>Kelsie Stunden</td> <td>kstunden@uwo.ca</td> </tr> <tr> <td>Akua Asare</td> <td>aasare2@uwo.ca</td> </tr> <tr> <td>Claudia Zeppetelli</td> <td>czeppete@uwo.ca</td> </tr> <tr> <td>Vrushali Sonera</td> <td>vsonera@uwo.ca</td> </tr> </table>	Heather Resvick	sstretto@uwo.ca	Nicole Peters	npeter23@uwo.ca	Kelsie Stunden	kstunden@uwo.ca	Akua Asare	aasare2@uwo.ca	Claudia Zeppetelli	czeppete@uwo.ca	Vrushali Sonera	vsonera@uwo.ca	<p><b>Lectures:</b></p> <ul style="list-style-type: none"> <li>• <b>ONLINE:</b> Weekly Web Modules: Asynchronous, via OWL</li> <li>• <b>IN-PERSON:</b> <i>First Thursday of every month:</i> 930-1030am, SSC-2050 <ul style="list-style-type: none"> <li>○ January 6<sup>th</sup></li> <li>○ February 3<sup>rd</sup></li> <li>○ March 3<sup>rd</sup></li> </ul> </li> </ul> <p><b>Review Sessions:</b> Online Live Sessions at the end of each unit with TAs</p> <ul style="list-style-type: none"> <li>• Unit 1: January 24</li> <li>• Unit 2: February 7</li> <li>• Unit 3: February 14</li> <li>• Unit 4: March 7</li> <li>• Unit 5: March 28</li> </ul>
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**NOTE:** This course will be offered in a blended format for the 2021/2022 academic year. All course information including grades, web modules, quizzes, the course schedule, deadlines, and announcements are managed via OWL. Please check the website regularly for course announcements. Log into OWL using your UWO username and password.

**Calendar Course Description (including prerequisites/anti-requisites):**

A gross anatomical description of the structure and function of the human body focusing on systems responsible for maintaining the body (respiratory, digestive, urinary, endocrine), and for its continuation through the transmission of genes (reproductive system, developmental anatomy). Emphasis on the physiological functions as they relate to the anatomical structure

**Prerequisite(s):** [Kinesiology 2222A/B](#) or [Health Sciences 2300A/B](#) or [Anatomy and Cell Biology 2200A/B](#).

*You are responsible for ensuring that you have successfully completed all course pre-requisites, and that you have not taken an anti-requisite course.*

*Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.*

**NOTE:** If you wish to enroll in this course without the stated pre-requisite(s), you must obtain written approval from the course instructor. The approval should then be forwarded to your academic counsellor.

**My Course Description**

The course is designed to provide the student with a gross anatomical description of the structure and function of the human body focusing on systems responsible for maintaining the body (nervous, respiratory, digestive, urinary, endocrine), and for its continuation through the transmission of genes (reproductive system, developmental anatomy). Emphasis will be on the biological functions as they relate to the anatomical structure. The impact of disease and trauma to the various organ systems will be discussed & related to the relevant anatomy. The objective of this course is to give each student an advanced understanding of human gross anatomy and working knowledge of the anatomical systems of the human body with particular reference to cavity systems and human development. At the end of this course each student should know the anatomical and functional issues regarding the nervous, endocrine, respiratory, digestive, and urinary systems. In addition, a strong working knowledge of human reproduction and development will be attained.

### **Learning Outcomes:**

At the end of this course students should be able to:

- explain the basic structure of the nervous system differentiating between the Central vs Peripheral nervous systems as well as Somatic vs Autonomic nervous systems
  - explain principles of neuronal conduction
  - describe ascending sensory and descending motor pathways in the spinal cord
- explain the structure and function of major body systems including the Nervous, Endocrine, Respiratory, Digestive, Urinary, and Reproductive Systems
- identify, and describe the basic function and structure of the main organs of the thorax and pelvis
- use land-marking strategies to identify gross structures relative to one another in the body including bones, muscles, blood vessels, and nerves.
- explain and predict, based upon clinical signs/symptoms, functional implications of nervous, endocrine, respiratory, digestive, urinary and reproductive system changes in aging and injury

Overall, the spirit of this course is to foster learning, critical thinking, active questioning, and an appreciation for health and disease from a gross anatomical perspective.

### **Important Dates:**

Term: Jan 3 – April 1, 2022

Spring Reading Week: Feb 19-27

Winter Exam Period: April 4-30 (April 2, 3 = study days)

Midterm: February 16, 7-9pm (*Makeup Midterm: February 18, 7-9pm*) \*online

### **Course Contact**

*What if I have a question about the course or content?*

Your TA is your first point of contact. You will be interacting with them weekly, and this will allow for quick and easy communication for all 200+ students enrolled in this course.

*I have sensitive information (including academic accommodations) I need to address:*

Please contact the instructor, Dr. Wood (katelyn.wood@uwo.ca) directly. I'm very happy to work with you to find a solution to problems you are encountering. This is a challenging course. Please do not feel like you are alone, and please reach out for help if you need it.

Whenever possible please use your UWO email address to avoid spam blocking etc. and include the course code (Kin 3222, HS3300) in the email subject line.

### **Weekly Course Schedule** (*subject to minor changes until course start date*)

Every week, you are expected to complete the following:

- 2-3 online modules (available asynchronously via OWL and/or in-person lecture)
- Some weeks will include a MCQ quiz covering the unit completed the week prior. All quizzes are due at 4pm, though are open for 48hrs up until that time.

Module Review Sessions will be offered on the MONDAY following a unit. These sessions will be

facilitated by a TA and recorded for asynchronous viewing. To have your questions answered, please post them to the google form by FRIDAY at 8 pm on the week prior to the session.

- For example, the Nervous System Review Session will be held on Monday Jan 24, questions are due online by Friday Jan 21.

Here's a preliminary outline of topics we will address in this course. The dates and topics are subject to change up until the start of the course.

	<b>Dates</b>	<b>Topic</b>	<b>Unit</b>	<b>Textbook Chapter Reference</b>
1	Jan 3-7	Anatomy Fundamentals Review Organization of the Nervous System	Nervous System	16.1-16.3
2	Jan 10-14	CNS: Brain, Spinal Cord, PNS: Spinal Nerves & Cranial Nerves		17, 18
3	Jan 17-21	Ascending & Descending Pathways + ANS		20
4	Jan 24-28	Hormones, Hypothalamus/Pituitary, Thyroid	Endocrine System	22.1-22.3, 22.5
5	Jan 31-Feb 4	Adrenal Glands, Pancreas, Ovaries & Testes		22.6-22.8
6	Feb 7-11	Respiration	Respiration	23
7	Feb 14-18	Oral Cavity, Esophagus, Stomach + Intestines <b>+ MIDTERM</b>	Digestive System	24.1-24.6
<b>SPRING READING WEEK FEB 19-27</b>				
8	Feb 28-Mar 4	Accessory Organs + Abdominal Quadrants, Portal Circulation + Liver	Digestive System	24.7-24.13
9	Mar 7-11	Kidney & Nephron	Urinary System	25.1-25.4
10	Mar 14-18	Ureters & Bladder, Urethra, Micturition		25.5-25.7
11	Mar 21-25	Development, Aging + Male Reproduction	Repro System	26.1, 26.5, 26.6
12	Mar 28-Apr 1	Female Reproduction + Human Development		26.2-26.4, 4.4-4.5

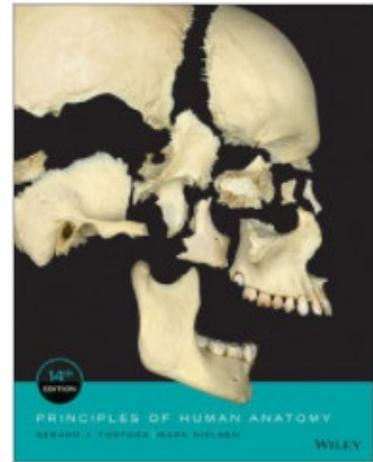
## Textbook

For this course, we will be using Principles of Human Anatomy, Ed 14/15 by Tortora and Nielsen. The text is available in both hard copy, and e-text. Subscription prices vary depending upon whether you would like a physical copy of the text or a digital downloaded copy.

Options for purchase are as follows:

	Text Access + duration	Purchase via	Cost
1	Online, duration of course	Bookstore or WileyPLUS	\$75
2	Permanent PDF download	WileyPLUS	\$90
3	Hardcopy Text	Bookstore	\$149

If you're purchasing via WileyPLUS, enter our course code A05646. More information is given on OWL.



**Those experiencing financial need should contact Dr. Wood for alternative solutions.**

## Additional Resources

Anatomy.TV (<https://guides.lib.uwo.ca/c.php?g=270739&p=1871478>)

- Available via the library (log in via the proxy), Anatomy.TV contains digital anatomical models which you can manipulate yourself using an internet browser window. Your TAs will be using this tool to demonstrate the anatomy in your laboratory sessions, and you're encouraged to use this, in conjunction with your text and class notes to gain an appreciation for the 3D nature of bodily structures.

## Course Evaluation

Evaluation in this course will be divided across 2 areas. These are subject to change up until the start of the course.

### 1) Midterm + Final exams – 80% (online)

- All exams in this course are cumulative.
- Midterm: Nervous System + Endocrine (Weeks 1-5) (40%) – **February 16, 7-9pm**
- Final Exam: Midterm content + Respiration + Digestion + Urinary + Reproduction Systems (40%) – **Final Exam Period, TBA**
- Further details will be provided at the start of the course.

### 2) Unit Quizzes (4) – 5% each. Total of 20% (online)

- 15 question, multiple choice quiz, at the end of each unit on OWL. Due 4pm on Friday afternoons the week after a unit ends.
- There will be 4 quizzes in total. Quizzes will remain open for 48 hours and are available on the following dates:
  - Unit 1: Nervous system – Jan 26-28
  - Unit 2: Endocrine – Feb 9-11
  - Unit 3: Respiration – Feb 16-18
  - Unit 4: Digestion – Mar 9-11

## Online Exams

This year, exams will be written online via OWL. This comes with some interesting considerations and requires incredible integrity from students. Unless directed to do so, I expect all graded work that is submitted to be completed independently. I recognize the value of collaboration and teamwork and will offer multiple opportunities throughout the course to do so. Please use review sessions to work as a group and reserve quizzes, the midterm and final exams to show me what you know and have learned independently.

**Missed Exams**

Only under exceptional circumstances will permission be granted for writing an exam on an alternate date (legitimate medical, religious or academic reasons (e.g. varsity sport athlete). If the exam was missed due to illness, proper documentation must be provided to the School office (academic counselor) as soon as physically possible (see university policies below for further instruction). You must contact me to let me know that you have missed the exam. The makeup examinations may consist of short and long answer questions, case studies and/or image-based questions based on anatomical and clinical material from lectures.

**Copyrighted Material:**

Lectures and practice resources are intellectual property are not to be uploaded on sites like CourseHero or other similar study resource sites. Copyright infringement and takedown requests will be filed if you upload these resources. You are not permitted to make audio or video recordings of class or laboratory presentations, without specific written authorization of the course instructor. Similarly, you may not reproduce or distribute any materials that are provided to you by the course instructor, unless you receive specific written authorization to do so. Violation of this course policy will be evaluated as per the Student Code of Conduct, available here:  
<http://www.uwo.ca/univsec/pdf/board/code.pdf>

## Course/University Policies

1. **Statement on Use of Personal Response Systems (“Clickers”)**: If Personal Response Systems (“Clickers”) are used in the course, a reference to the Guidelines for their use (Guidelines are shown below). Instructors are to communicate clearly to students information on how clickers are used including: how the student’s privacy will be protected, how clickers may be used by the instructor for data gathering and for evaluating the students, and why they cannot be used by anyone but the student (since the students involved in misuse of a clicker may be charged with a scholastic offence).

2. **Academic offences**: They are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site: [https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page\\_20](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_20)

A) Students must write their essays and assignments in their own words. Whenever students take an idea, or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar). All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and Turnitin.com (<http://www.turnitin.com>)

B) Computer marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

### 3. **Electronic Device Usage:**

**During Exams** - Unless you have medical accommodations that require you to do so, or explicit permission from the instructor of the course, you may not use any of the following electronic devices during ANY of the tests, quizzes, midterms, examinations, or other in-class evaluations: cellphones, smart phones, smart watches, smart glasses, audio players or recorders of any sort, video cameras, video games, DVD players, televisions, laptop/notebook/netbook computers, flashlights or laser pointers.

**During In Person Lectures and Tutorials:** Although you are welcome to use a computer during lecture and tutorial periods, you are expected to use the computer for scholastic purposes only, and refrain from engaging in any activities that may distract other students from learning. Please be respectful to your fellow students and turn the sound off. If the professor receives complaints from other students regarding noise or other disruptive behavior (e.g. watching videos on YouTube.com, updating your Facebook status, playing Solitaire), your classroom privileges will be revoked. From time to time, your professor may ask the class to turn off all computers, to facilitate learning or discussion of the material presented in a particular class. **Unless explicitly noted otherwise, you may not make audio or video recordings of lectures – nor may you edit, re-use, distribute, or re-broadcast any of the material posted to the course website.**

4. **Health and Wellness:** As part of a successful undergraduate experience at Western, we encourage you to make your health and wellness a priority. Western provides several on-campus health-related services to help you achieve optimum health and engage in healthy living while pursuing your degree. Information regarding health and wellness-related services available to students may be found at <http://www.health.uwo.ca/>.

Students who are in emotional/mental distress should refer to Mental Health@Western ([Mental Health Support - Health & Wellness - Western University \(uwo.ca\)](http://www.health.uwo.ca/)) for a complete list of options about how to obtain help.

5. **Support Services:** There are various support services around campus and these include, but are not limited to:

1. Student Development Centre -- <http://academicsupport.uwo.ca/>
2. Student Health & Wellness -- <https://www.uwo.ca/health/>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombudsperson Office -- <http://www.uwo.ca/ombuds/>

## **Accommodation, Illness Reporting and Academic Considerations**

[Academic Calendar - Western University \(uwo.ca\)](http://www.uwo.ca/academiccalendar/)

### **Accommodation Policies**

Students with disabilities work with Accessible Education (formerly SSD) which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The accommodation policy can be found here: [Academic Calendar - Western University \(uwo.ca\)](http://www.uwo.ca/academiccalendar/)

### **Academic Consideration for Student Absence**

<https://www.uwo.ca/fhs/kin/undergrad/academic/consideration/index.html>

Students will have up to two (2) opportunities during the regular academic year to use an on-line portal to self-report an absence during the term, provided the following conditions are met: the absence is no more than 48 hours in duration, and the assessment for which consideration is being sought is worth 30% or less of the student's final grade. Students are expected to contact their instructors within 24 hours of the end of the period of the self-reported absence, unless noted on the syllabus. Students are not able to use the self-reporting option in the following circumstances:

- for exams scheduled by the Office of the Registrar (e.g., December and April exams)
- absence of a duration greater than 48 hours,
- assessments worth more than 30% of the student's final grade,
- if a student has already used the self-reporting portal twice during the academic year

If the conditions for a Self-Reported Absence are *not* met, students will need to provide a Student Medical Certificate if the absence is medical, or provide appropriate documentation if there are compassionate grounds for the absence in question. Students are encouraged to contact their Faculty academic counselling office to obtain more information about the relevant documentation. Students should also note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. **All documentation required for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.**

For Western University policy on Consideration for Student Absence, see [Academic Calendar - Western University \(uwo.ca\)](http://www.uwo.ca/academiccalendar/) and for the Student Medical Certificate (SMC), see: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

### **Religious Accommodation**

Students should consult the University's list of recognized religious holidays, and should give reasonable notice in writing, prior to the holiday, to the Instructor and an Academic Counsellor if their course requirements will be affected by a religious observance. Additional information is given in the [Western Multicultural Calendar](http://www.uwo.ca/multiculturalcalendar/).

6. **Examination Conflicts:** A student with examinations having flexible submission times (e.g., where one or more examination is a take-home examination) cannot request alternative arrangements unless a conflict cannot be avoided by rescheduling writing the exam to a different time within the window specified by the instructor. This applies to direct conflicts as well as "heavy load" conflicts (e.g., three exams within a 23-hour period). The student should discuss any concerns about a potential conflict and/or request accommodation with their academic counselling unit prior to the deadline to drop a course without academic penalty.

In the case of online examinations, an "Examination Conflict Room," which may be assigned when a student is scheduled to write two proctored exams concurrently, will be interpreted as arrangements for continuous proctoring.

7. **Grades:** Where possible assignment objectives and rubrics will be posted on OWL. Should you have a concern regarding the grade you received for an assignment or feel that it is unfair in any way,

you must wait 24 hours from the receipt of the assignment to approach the instructor or TA. In doing so, please make an appointment and prepare in writing, with evidence, why you feel your grade is inappropriate. Please be aware that in requesting a grade reassessment, your grade could go up/down/or stay the same. Note that calculations errors (which do occur!) should be brought to my attention immediately.

At least three days prior to the deadline for withdrawal from a 1000- or 2000-level course without academic penalty, students will receive assessment of work accounting for at least 15% of the final grade.

- November 12th, 2020 (for first term half-courses)
- November 30th, 2020 (for full-year courses)
- March 7th, 2021 (for second term half-or full year courses)

#### *Grade Descriptions:*

A+	90-100	<i>One could scarcely expect better from a student at this level</i>
A	80-89	<i>Superior work that is clearly above average</i>
B	70-79	<i>Good work, meeting all requirements and eminently</i>
C	60-69	<i>Competent work, meeting requirements</i>
D	50-59	<i>Fair work, minimally acceptable.</i>
F	below 50	<i>Fail</i>

#### **Rounding of Grades** (for example, bumping a 79 to 80%):

This is a practice some students request. **This practice will not occur here.** The edges of this course are clear and sharp. The mark attained is the mark you achieved and the mark assigned; there is no rounding to the next grade level, or ‘giving away’ of marks. Please don’t ask me to do this for you; the response will be “please review the course outline where this is presented”.

#### **Contingency Plan for an In-Person Class Pivoting to 100% Online Learning**

In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, all remaining course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will **not** change. Any remaining assessments will also be conducted online as determined by the course instructor.

8. **Classroom Behaviour:** Synchronous classes will begin promptly at the time specified at the top of page one of this syllabus. In the event that you arrive late, please enter our virtual classroom with a minimal disturbance to the class. Please be sure you are muted prior to joining.

9. **Online Etiquette:** Some components of this course will involve online interactions. To ensure the best experience for both you and your classmates, please honour the following rules of etiquette:

- please “arrive” to class on time
- please use your computer and/or laptop if possible (as opposed to a cell phone or tablet)
- ensure that you are in a private location to protect the confidentiality of discussions in the event that a class discussion deals with sensitive or personal material
- to minimize background noise, kindly mute your microphone for the entire class until you are invited to speak, unless directed otherwise
- In order to give us optimum bandwidth and web quality, please turn off your video camera for the entire class unless you are invited to speak
- [suggested for cases where video is used] please be prepared to turn your video camera off at the instructor’s request if the internet connection becomes unstable
- unless invited by your instructor, do **not** share your screen in the meeting

The course instructor and/or TAs will act as moderator for the class and will deal with any questions from participants. To participate please consider the following:

- if you wish to speak, use the “raise hand” function and wait for the instructor to acknowledge you before beginning your comment or question
- remember to unmute your microphone and turn on your video camera before speaking
- self-identify when speaking.

- remember to mute your mic and turn off your video camera after speaking (unless directed otherwise)

General considerations of “netiquette”:

- Keep in mind the different cultural and linguistic backgrounds of the students in the course.
- Be courteous toward the instructor, your colleagues, and authors whose work you are discussing.
- Be respectful of the diversity of viewpoints that you will encounter in the class and in your readings. The exchange of diverse ideas and opinions is part of the scholarly environment. “Flaming” is never appropriate.
- Be professional and scholarly in all online postings. Cite the ideas of others appropriately.

Note that disruptive behaviour of any type during online classes, including inappropriate use of the chat function, is unacceptable. Students found guilty of Zoom-bombing a class or of other serious online offenses may be subject to disciplinary measures under the Code of Student Conduct.

**10. Online Learning Support:** If you require support with online learning tools and resources, please refer to the Faculty of Health Sciences Online Teaching and Learning Support [Jira request links](#) for students.

**11. Student Code of Conduct:** The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at Western University, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be imposed and set out the disciplinary procedures that the University will follow. For more information, visit <https://www.uwo.ca/univsec/pdf/board/code.pdf>