



We recognize and acknowledge that Brock University is located on the traditional lands of the Haudenosaunee and Anishinabe peoples and traditional shared hunting and gathering grounds of many nations.

BROCK UNIVERSITY
DEPARTMENT OF KINESIOLOGY
Human Systems Anatomy – KINE 1P90 FW2023

COURSE INSTRUCTOR:

Mia Geromella

CRN 431

Office hours: by appointment on Mon & Thurs

LAB SUPERVISOR:

Dr. Martin Dragan

CRN 417A, Extension 4521

Office hours: by appointment

COURSE E-MAIL: For any inquiries or contact with instructional team, students are asked to use sysanatomy@brocku.ca as the email address.

COURSE DESCRIPTION: A systems overview of human functional anatomy. This course focuses on the gross and microscopic anatomical structures and functional connections of the body's core systems.

COURSE OBJECTIVES:

On completion of this course a student should be able to:

1. Demonstrate an understanding of anatomical terminology and language
2. Develop an anatomic knowledge base
3. Demonstrate an understanding of how the systems function and how they are related to one another
4. Locate and identify major anatomical structures and note their clinical significance

LECTURES:

Thursdays 6:00 – 8:00 pm THSOS

LABORATORY TIMES:

LAB #	DAY	TIME	Teaching Assistants	Email
LAB 1	Monday	8a-10a	Roopan; Bianca	rdhaliwal@brocku.ca; bm17hp@brocku.ca
LAB 2	Monday	10a-12p	Jessica; Bianca	jb15gq@brocku.ca; bm17hp@brocku.ca
LAB 3	Monday	1p-3p	Rebekah; Darrah	rf17ze@brocku.ca; dc19ls@brocku.ca
LAB 4	Monday	3p-5p	Rebekah; Darrah	rf17ze@brocku.ca; dc19ls@brocku.ca
LAB 5	Tuesday	8a-10a	Jessica; Alex	jb15gq@brocku.ca; ay14dx@brocku.ca
LAB 6	Tuesday	10a-12p	Sophie; Emily	sh14iu@brocku.ca; ec15wf@brocku.ca
LAB 7	Tuesday	1p-3p	Shamae; Ava	sq18xz@brocku.ca; at19tn@brocku.ca
LAB 8	Tuesday	3p-5p	Shamae Ava	sq18xz@brocku.ca; at19tn@brocku.ca
LAB 9	Wednesday	8a-10a	Maddy; Alex	mm17ff@brocku.ca; ay14dx@brocku.ca

LAB 10	Wednesday	10a-12p	Sophie; Emily	sh14iu@brocku.ca; ec15wf@brocku.ca
LAB 11	Wednesday	1p-3p	Nicolas; Mitchell	nw18xq@brocku.ca; mi18ep@brocku.ca
LAB 12	Wednesday	3p-5p	Andrea; Mitchell	ap14ml@brocku.ca; mi18ep@brocku.ca
LAB 17	Wednesday	5p-7p	Andrea; Ava	ap14ml@brocku.ca; at19tn@brocku.ca
LAB 13	Friday	8a-10a	Ahmad; Maddy	mm17ff@brocku.ca; am17jq@brocku.ca
LAB 14	Friday	10a-12p	Ahmad; Luc	am17jq@brocku.ca; lw10lu@brocku.ca
LAB 15	Friday	1p-3p	Nicolas; Luc	nw18xq@brocku.ca; lw10lu@brocku.ca
LAB 16	Friday	3p-5p	Nicolas; Roopan	nw18xq@brocku.ca; rdhaliwal@brocku.ca

Labs will take place in Cairns McMaster Lab 221 or in Cairns 310. Please check the schedule to see which lab is being used for that week's session.

BRIGHTSPACE:

All course information will be communicated via the course Brightspace page. Your online quizzes will be offered via Brightspace and any materials are to be submitted on this site. It is expected that all work is completed on an individual basis.

COURSE MATERIALS:

1. HUMAN ANATOMY (Pearson, Benjamin & Cummings, Publishers)
*Mastering A&P online material**
2. Lab Manual
3. Lab coat

*Please see Brightspace for access instructions for **Mastering A&P**. Can be purchased through the Brock Bookstore.

Visible Body is recommended as an additional study resource.

METHODS OF EVALUATION:

Midterm	15%
Final Exam	15%
Weekly Lab Participation	15%
Weekly Online Quiz	15%
Lab Exam 1	20%
Lab Exam 2	20%
FINAL MARK	/100

Each component of the course must be completed to pass this course.

WITHDRAWAL DATE: The Last day to withdraw from a Fall D2 course (without academic penalty / no grade) is March 8, 2024.

EXAMS:

The midterm and final exam will be multiple choice style questions. These will be completed in-person. The exams are to be completed on an **individual** basis. Please review Brock's policy on Scholastic Offenses. Emphasis will be on **UNDERSTANDING** the material. Students must write each examination on the day scheduled.

LAB EXAMS:

Lab Exams will be in a "bell-ringer" format. Students must write each examination on the day scheduled and with the lab group in which they are registered. Students have 2 min per station to answer questions. It is expected that this exam will be completed on an **individual** basis. Please review the Brock policy on Scholastic Offences.

Students who do not write an exam on the scheduled date **MUST** notify the Professor *before* the exam *or within 7 days after* missing the exam. For deferrals granted for medical reasons the student **MUST** bring a Brock medical certificate from the clinic. Only this medical certificate will be accepted as a document for a medical reason deferral. Requests for deferrals for exams or assignment deadlines for non-medical reasons may, in rare cases, be given by the Professor following a meeting with the Professor *before or within seven days* after the missed exam/ assignment. **Substitute or additional work for missed exams or assignments is not allowed.**

ACCOMMODATIONS:

Students who miss an exam for any reason – including illness – write a make-up exam on the following dates. No further accommodation will be made.

Students who MISS a scheduled Lab Exam write the Make-up on: TBA
Students who MISS a scheduled Midterm or Final write the Make-up on: TBA

UNIT QUIZZES:

Quizzes will be completed for each Unit through Brightspace. Quizzes will cover the material presented for that Unit in the lectures. You will have 1 attempt and 30 min to complete each quiz of 15 questions. The quizzes will be available for completion on a weekly basis and are expected to be completed by Wednesday at 11:59pm (just before midnight) following that week's units. You are expected to complete these quizzes on an **individual** basis.

WEEKLY LAB PARTICIPATION:

Lab attendance is a critical component of the course, as is the ability to demonstrate what you have learned during your time in the lab. Participation in the lab will be graded via the ability of each student to demonstrate what they've learned by identifying structures or components before the end of each session. This will include being asked to identify structures during lab sessions, as well as participating in lab practice quizzes.

STUDENT ACCESSIBILITY SERVICES:

As part of Brock University's commitment to a respectful work and learning environment, the University will make every reasonable effort to accommodate all members of the University community with disabilities. If you require academic accommodation related to a permanent disability

to participate in this course, you are encouraged to contact SAS (4th Floor Schmon Tower ext 3240) and also discuss these accommodation(s) with the professor.

ROUNDING OF MARKS:

All students will be treated equally and evaluated based only on their actual achievement. Final grades, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks **WILL NOT** be bumped to the next grade or GPA, e.g. a 79 will NOT be bumped up to an 80, an 84 WILL NOT be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for “bumping” will be denied.

INVITATION TO PARTICIPATE IN RESEARCH PROJECTS:

Students may be invited to participate in education research projects conducted by undergraduate thesis students and graduate students in the Faculty of Applied Health Sciences. Your participation is greatly appreciated by these students however, it is entirely voluntary. Non-participation in these studies will not have a negative impact on your standing in this course. Students should be assured that any research projects involving this course have been approved by Brock’s REB Office.

LATE SUBMISSION POLICY:

Assignments such as quizzes will have an extended late policy implemented. Quizzes will have due dates for submission, but students can submit these quizzes up until the end of the course. Once the course deadline has been reached, no submissions will be accepted, and any missed assignments will be automatically given 0. Missed exams will be automatically given 0, until eligible makeup lab exams have been completed.

RELATIONSHIP BETWEEN ATTENDANCE AND GRADES:

Students are expected to attend all lectures and labs and must submit all assignments to pass this course. Students are responsible for all material covered in the lectures and corresponding material in the textbook (readings).

IMPORTANT DATES:

Students are responsible for recognizing Important Dates as outlined by the Registrar’s Office (check the section on sessional or important dates in the relevant online University calendar at: <https://brocku.ca/important-dates/>). Please consult the information at the provided link.

ACADEMIC POLICIES

ACADEMIC INTEGRITY:

Academic misconduct is a serious offence. The principle of academic integrity, particularly of doing one's own work, documenting properly (including use of quotation marks, appropriate paraphrasing and referencing/citation), collaborating appropriately, and avoiding misrepresentation, is a core principle in university study. Students should consult Section VII, "Academic Misconduct", in the "Academic Regulations and University Policies" entry in the Undergraduate Calendar, available at <http://brocku.ca/webcal> to view a fuller description of prohibited actions, and the procedures and penalties. Information on what constitutes academic integrity is available at <https://brocku.ca/academic-integrity/>

INTELLECTUAL PROPERTY NOTICE:

All slides, presentations, handouts, tests, exams, and other course materials created by the instructor in this course are the intellectual property of the instructor. A student who publicly posts or sells an instructor's work (i.e, onto *Course Hero*, *Chegg*, etc.), without the instructor's express consent, may be charged with misconduct under Brock's Academic Integrity Policy and/or Code of Conduct, and may also face adverse legal consequences for infringement of intellectual property rights.

SPECIAL ACCOMMODATION:

The University is committed to fostering an inclusive and supportive environment for all students and will adhere to the Human Rights principles that ensure respect for dignity, individualized accommodation, inclusion and full participation. The University provides a wide range of resources to assist students, as follows:

- a. If you require academic accommodation because of a disability or an ongoing health or mental health condition, please contact Student Accessibility Services at askSAS@brocku.ca or 905 688 5550 ext. 3240.

- b. **Medical Self-Declaration Form (short-term)**

In the case of a short-term medical circumstance, if a student wishes to seek an academic consideration, please use the [Medical Self-Declaration Form](#). The request is to be made in good faith by the student requesting the academic consideration due to a short-term condition that impacts their academic activities (e.g., participation in academic classes, delay in assignments, etc.).

The period of this short-term medical condition for academic consideration must fall within a 72-hour (3 day) period. The form needs to be submitted to the instructor either during your brief absence or in cases where you are too unwell, within 24 hours of the end of your 3 day brief absence.

Medical Verification Form (extended duration)

In cases where a student requests academic consideration due to a medical circumstance that

exceeds 72 hours (three days) and will impact their academic activities (e.g., participation in academic classes, delay in assignments, etc.), or in the case of a final exam deferral, the [medical verification form](#) must be signed by the student and the health professional as per process set out in the [Faculty Handbook III:9.4.1](#).

- c. If you are experiencing mental health concerns, contact the Student Wellness and Accessibility Centre. *Good2Talk* is a service specifically for post-secondary students, available 24/7, 365 days a year, and provides anonymous assistance: <http://www.good2talk.ca/> or call 1-866-925-5454. For information on wellness, coping and resiliency, visit: <https://brocku.ca/mental-health/>
- d. If you require academic accommodation on religious grounds, you should make a formal, written request to your instructor(s) for alternative dates and/or means of satisfying requirements. Such requests should be made during the first two weeks of any given academic term, or as soon as possible after a need for accommodation is known to exist.
- e. If you have been affected by sexual violence, the Human Rights & Equity Office offers support, information, reasonable accommodations, and resources through the Sexual Violence Support & Education Coordinator. For information on sexual violence, visit [Brock's Sexual Assault and Harassment Policy](#) or contact the Sexual Violence Support & Response Coordinator at humanrights@brocku.ca or 905 688 5550 ext. 4387.
- f. If you feel you have experienced discrimination or harassment on any of the above grounds, including racial, gender or other forms of discrimination, contact the Human Rights and Equity Office at humanrights@brocku.ca.

LECTURE SCHEDULE

Unit	Week	TOPICS	READING SUGGESTIONS
1	Jan 11	* Introduction & TERMINOLOGY	Pages 1-29
2	Jan 18	* CONNECTIVE TISSUE – Cartilage & Bone	49-70; 107-124; 203-211
3	Jan 25	* MUSCLE – Types & Functions	Pages: 74-75, 235-258
4	Feb 1	* BLOOD / CARDIOVASCULAR SYSTEM/ HEART	Pages: 528-541; 545-563; 567-576.
5	Feb 8	* RESPIRATORY SYSTEM	Pages: 624-645.
6	Feb 15	MID-TERM (*content on test) In-class	Units 1-5 STUDY-STUDY-STUDY
	Feb 22	Reading Week (no class)	
7	Feb 29	§NERVOUS SYSTEM I – Neural Tissue & Spinal Cord	Pages: 338-355; 360-369, Reflexes 374, 380-382.
8	Mar 7	§NERVOUS SYSTEM II – Brain & Autonomic Nervous System	Pages: 403-444.
9	Mar 14	§DIGESTIVE SYSTEM	Pages: 650-682.
10	Mar 21	§URINARY SYSTEM	Pages: 687-702.
11	Mar 28	§REPRODUCTIVE SYSTEM - Male §REPRODUCTIVE SYSTEM - Female	Pages: 707- 733.
12	Apr 4	IN-CLASS CONTENT REVIEW (§content on final)	Units 7-11

NOTE: Previewing lecture material in textbook in advance of lectures is **STRONGLY** recommended.

SCHEDULE OF LABORATORIES

LAB	Week	WHAT WILL BE COVERED	LOCATION
1	Jan 12 – 17	Introduction & Orientation	CRN 310
2	Jan 19 – 24	Connective tissue – Cartilage & Bone	CRN 221
3	Jan 26 – 31	Muscle – types and functions	CRN 310
4	Feb 2 – 7	Cardiovascular System	CRN 221
5	Feb 9 – 14	Respiratory System	CRN 310
	Feb 19 – 23	Reading Week – no labs	
6	Feb 16, 26-28	LABORATORY EXAM 1	CRN 310
7	March 1 – 6	Nervous System I	CRN 310
8	March 8 – 13	Nervous System II	CRN 221
9	March 15 – 20	Digestive System	CRN 310
10	March 22 – 27	Urinary System	CRN 221
11	April 1 – 5	Reproductive System	CRN 310
	April 10, 11	LABORATORY EXAM 2	CRN 310

NOTE: Lab Manual, Mastering A&P, and other resources are encouraged to help augment the Laboratory experience.