

THE UNIVERSITY OF LETHBRIDGE
FACULTY OF HEALTH SCIENCES
HLSC/KNES 1160 – HUMAN ANATOMY & PHYSIOLOGY I
Course Syllabus – Fall, 2015

INSTRUCTOR:	Natalie de Bruin, PhD	E-MAIL:	natalie.debruinnutle@uleth.ca
OFFICE:	PE222	PHONE:	403-317-5027
OFFICE HOURS:	TBA		
CLASS TIME:	T/R, 1:40-2:55 pm	LAB TIME:	T/R, 12:40-1.30pm; T/R, 3:05-3:55 pm
CLASSROOM:	TH201	LAB:	PE044

COURSE PREREQUISITE:

Biology 30 or admission to the Post-Diploma Bachelor of Therapeutic Recreation program.

COURSE DESCRIPTION:

A study of the human body from investigation of anatomical systems, physiological functioning, and biomechanical processes of movement. This course is designed to serve as an introductory course upon which more advanced study can be based.

COURSE OBJECTIVES:

This course will follow a lecture format and will be supplemented by laboratory experiences throughout the semester. Upon successful completion of this course, the student will be able to:

- Outline the overall organization and function of the human body.
- Demonstrate an understanding of the levels of structural organization of the human body.
- Identify the structure and functions of each of the following major body systems: skeletal system; muscular system; nervous system; respiratory system and cardiovascular system.
- Accurately use anatomical language to describe body structures and functioning.

REQUIRED TEXTBOOK:

Martini, F. H., Nath, J. L., & Bartholomew, E. F. (2014). *Fundamentals of Anatomy and Physiology* (10th ed.). Pearson Benjamin Cummings: California.

Additional course material will be available on the University Moodle website; <https://moodle.uleth.ca>

STUDENT RESPONSIBILITIES:

Kinesiology/Health Sciences 1160 will adhere strictly to the policies set down in the University of Lethbridge Calendar. The expectation is that all students have read and understood their rights, privileges, and obligations at the University of Lethbridge. Further, they understand the consequences and processes involved for violation of established rules. Students are expected to have read and understood:

- The fundamental principles of student citizenship (p. 9);
- Academic regulations concerning grading (pp. 70-72);
- Process for the appeal of grades (pp. 75-78);
- Student Discipline Policy a) Academic Offences (pp. 78-80);
- Student Discipline Policy b) Non-Academic Offences (pp. 80-83);
- Other academic regulations: Students with Special Needs to Taping of Lectures (pp. 88).

PLAGIARISM STATEMENT:

The University of Lethbridge subscribes to Turnitin.com, a plagiarism detection service. Please be advised that student work submitted for credit in this course may be submitted to this system to verify its originality. Students must be able to submit both electronic and hard copy versions of their work upon request.

EVALUATION:

Evaluation in this course will be based on written exams and lab assignments as follows:

ITEM	DATE	WEIGHT
Midterm Exam	Thursday, October 22 nd 1.40pm	20%
Final Exam	Wednesday, December 16 th 2pm	30%
Lab assignments (10)	Ongoing	50% (5% each assignment)

EXAMS: (50%)

There will be one 75 minute midterm exam (worth 20%) given during class time and one 120 minute final exam (worth 30%) given during the final exam period. Exams will evaluate comprehension of the important concepts and information presented in the course. Exams will be made up primarily of multiple choice, matching, fill-in-the-blank, labeling and short answer questions. Exams will be non-cumulative.

Instructor Policy on Exam Conflicts:

Accommodations will be made for students having a conflict with any of the scheduled exam times for the following reasons:

- Athletic or other University of Lethbridge sponsored trips. A letter signed by the group's senior leader must be presented to the instructor a minimum of 2 weeks prior to the scheduled travel date.
- Scheduled events for representatives of Provincial or National athletic teams.
- Special case absences will be provided at the discretion of the instructor.

Applications for make-up exams will be made at least **two weeks (14 days)** before the scheduled exam time. Applications will be accepted as letters of request written, on formal letterhead, on behalf of the student by senior coaching or personnel staff. Students who miss an exam due to medical reasons must provide formal documentation (doctor's note) for their absence.

Final Exam Policy:

Be aware that the final exam is scheduled during the final exam period. Students are reminded that the University Final Exam Policy states that only in extraordinary circumstances may students request to write an equivalent invigilated Final Examination at other than the scheduled time and place. Students are advised that holiday travel plans do not constitute an extraordinary circumstance. Final exams rescheduling requests are handled by the Arts and Science Student Program Services, SU060.

LAB ASSIGNMENTS: (50%)

There will be a total of 10 lab assignments in the course. Lab assignments are worth 50% of the course grade (5% per assignment). Lab assignments will not be accepted for grading unless the student attended the associated lab. If you are not able to attend your scheduled lab section you are responsible for contacting the course instructor to make arrangements to attend an alternative lab section. Absences (and submission of associated lab assignments) may be approved at the discretion of the instructor on a case-by-case basis. There will be NO make-up assignments. Information on the lab assignments will be provided in lab. All lab assignments are to be handed in at the **beginning** of the designated lab or class.

Policy on lateness:

Assignments that are not submitted at the specified time will be considered LATE and will be penalized as follows: a 15% per day (24 hour) deduction will be applied to the grade on the late submission.

GRADING BREAKDOWN:

The **Department of Kinesiology and Physical Education** stipulates that the following grading scale be used. In all cases marks totaling to a second-point decimal place will be round **up** to the nearest first decimal point.

A+	91.0 – 100	A	86.0 – 90.9	A-	80.0 – 85.9
B+	77.0 – 79.9	B	73.0 – 76.9	B-	70.0 – 72.9
C+	67.0 – 69.9	C	63.0 – 66.9	C-	60.0 – 62.9
D+	55.0 – 59.9	D	50.0 – 54.9		
		F	Below 50		

ACCOMMODATIONS FOR STUDENTS WITH A DISABILITY:

Reasonable accommodations are available for students who have a documented disability. If you have been diagnosed with a disability, there is no need to face the challenge of University without support. Please contact the Accommodated Learning Centre at 403-329-2766 to set up an appointment. After registering with the Accommodated Learning Centre, your instructor will be notified by a formal letter of any accommodations you require. In addition, students are responsible for requesting accommodations from the instructor at least ***two weeks*** in advance of the evaluation date. The instructor and student are jointly responsible for arranging the resources needed for the evaluation process.

MISCELLANEOUS ISSUES:

In consideration of your fellow students and overall learning environment, it is expected that cell phones and personal entertainment devices be turned off during lectures. Students are expected to be on time for class. If you plan to use a laptop or tablet in class and it becomes apparent that you are not using it for academic purposes and are distracting other students, then the instructor reserves the right to ask you to power down the computer. **No food is permitted in labs.**

COPYRIGHT STATEMENT:

All University of Lethbridge students, faculty and staff must comply with Canadian law and institutional license agreements pertaining to copyright. At the same time, keeping abreast of our copyright obligations and options is a complex task as copyright matters locally and globally are in flux and are likely to remain so for at least the near future.

The University's Copyright website (www.uleth.ca/copyright) is a source of current copyright information that includes:

- answers to common copyright questions (see the [FAQs](#)),
- guidance on whether you need permission or a license to copy a particular work (see the [Copyright Permissions Flow Chart](#)),
- guidance on assessing whether fair dealing may apply to specific instances of copying you wish to undertake (see the [Guidelines for Copying under Fair Dealing](#)), and
- a [permissions look-up tool](#) to help you determine the kinds of copying and other uses permitted by the Library's license agreements covering specific online journals and other online resources.

You are encouraged to contact the University Copyright Advisor (copyright@uleth.ca) for assistance with any copyright questions or issues.

TENTATIVE LECTURE AND LAB SCHEDULE (subject to change):

WEEK/DATE	LECTURE TOPIC	CHAPTERS IN TEXT	LAB
1 – September 7	Introduction to class		NO LABS
2 – September 14	Introduction to anatomy and physiology Chemical level of organization	Ch. 1 Ch. 2	Lab #1 Introduction to A & P
3 – September 21	Cellular level of organization Tissue level of organization – Epithelial tissue	Ch. 3 Ch. 4	Lab #2 Cell transport mechanisms
4 – September 28	Tissue level of organization - Connective tissue Osseous tissue – Purpose and structure	Ch. 4 Ch. 6	NO LABS
5 – October 5	Osseous tissue – Development and growth Skeletal system – Axial division	Ch. 6 Ch. 7	Lab #3 Axial skeleton
6 – October 12	Skeletal system – Appendicular division Skeletal system – Joints and movements	Ch. 8 Ch. 9	Lab #4 Appendicular skeleton
7 – October 19	Muscle tissue <i>Thursday Midterm Exam</i>	Ch. 10	NO LABS
8 – October 26	Muscle tissue Muscular system – Axial musculature	Ch. 10 Ch. 11	Lab #5 Skeletal muscle physiology
9 – November 2	Muscular system – Appendicular musculature Musculature - Biomechanics	Ch. 11 Ch. 11	Lab #6 Upper body musculature
10 – November 9	Nervous system – Neural tissue Nervous system – Spinal cord, spinal nerves, spinal reflexes	Ch. 12 Ch. 13	Lab #7 Lower body musculature
11 – November 16	Nervous system – Brain and cranial nerves Nervous system – Autonomic nervous system	Ch. 14 Ch. 16	Lab #8 Neurophysiology of nerve impulses
12 – November 23	Cardiovascular system	Ch.	Lab #9 Cardiovascular system
13 – November 30	Cardiovascular/Respiratory system	Ch. 23	Lab #10 Respiratory system
14 – December 7	Respiratory system	Ch. 23	NO LABS
	<i>Final exam* Wednesday, 16th December, 2-5 p.m.</i>		

*Scheduled during final exam period, see <https://www.uleth.ca/ross> for confirmation of date, time and location