

**UNIVERSITY OF LETHBRIDGE**  
**FACULTY OF HEALTH SCIENCES**  
**TREC 1850 – HUMAN ANATOMY AND PHYSIOLOGY**  
**Course Syllabus – Spring, 2017**

**INSTRUCTOR:** Ashley Amson  
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**OFFICE HOURS:** Wednesdays, 9:00 a.m. – 12:00 p.m. or by appointment  
**CLASS TIME:** Tuesdays and Thursdays, 9:25 – 10:40 a.m.  
**CLASSROOM:** TH 141  
**LAB TIME:** Thursdays, 10:50 a.m. – 12:05 p.m.  
**LAB LOCATION:** PE044

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### **COURSE DESCRIPTION**

This course will provide an introductory overview of the anatomy and physiology of the human body. It will investigate anatomical systems, physiological functioning and biomechanical processes of the body. This knowledge can then be applied to the continuum of inpatient care and to an individual's independent enjoyment of recreation.

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### **LEARNING OBJECTIVES**

Upon successful completion of the course, students will be able to:

- Accurately use anatomical language to describe body structures and functioning.
- Demonstrate an understanding of the levels of structural organization of the human body.
- Outline the structure and functions of each of the major body systems.
- Demonstrate an understanding of environmental factors and personal health practices that affect optimal functioning of the human body.
- Demonstrate an understanding of neurological, muscular and skeletal systems pertaining to movement.
- Demonstrate an understanding of the biomechanics of the spine and skeletal muscles and their articulations.

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### **REQUIRED TEXTBOOK**

- Amerman, E.C. (2016). *Human Anatomy & Physiology*. Jacksonville, FL: Pearson Education Inc
- Additional course material will be available on Moodle

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### **COURSE FORMAT**

Classes will consist of 75-minute class sessions, twice a week starting Jan. 10, through to April 6. This course is composed of a lecture format (twice a week) and will be supplemented with laboratory exercises (once a week) throughout the semester.

## EVALUATION

Item	Date	Weight
Lab Assignments (5)	Various – see syllabus for dates	25% (5% each assignment)
Quizzes	Various – see syllabus for dates	25% (5% each quiz)
Midterm Exam	February 28	20%
Final Exam	During Final Exam Period	30%
<b>Total</b>		<b>100%</b>

### 1. Exams (50%)

There will be one 75-minute midterm exam (worth 20%) given during class time and a 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 consist of primarily multiple choice, matching, fill-in-the-blank, labeling and short answer questions. Exams will be non-cumulative.

### 2. Lab Assignments (25%)

There will be a total of 5 lab assignments in the course. Lab assignments are worth 25% of the course grade (5% per assignment). Lab assignments will not be accepted for grading unless the student attended the associated lab. 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.

### 3. Quizzes (25%)

There will be a total of 5 quizzes. These quizzes are worth 25% of the course grade (5% each quiz). Quizzes will be available through Moodle. They will be in the format of multiple choice.

**Policy on lateness:** Assignments that are not submitted at the specified time will be considered LATE and will be penalized as follows: a 5% per day (24 hour) deduction will be applied to the grade on the late submission. No submissions will be accepted a week after they are due.

## GRADING BREAKDOWN

The grading system for this course is consistent with that established in the Faculty of Health Sciences, effective May, 2002.

Letter	GPA	Percent	Letter	GPA	Percent
A+	4.0	95 - 100%	C+	2.3	71 - 74.9%
A	4.0	91 - 94.9%	C	2.0	67 - 70.9%
A-	3.7	87 - 90.9%	C-	1.7	63 - 66.9%
B+	3.3	83 - 86.9%	D+	1.3	59 - 62.9%
B	3.0	79 - 82.9%	D	1.0	55 - 58.9%
B-	2.7	75 - 78.9%	F	0	0 - 54.9%

## **CLASSROOM ETIQUETTE**

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Students are expected to attend all classes/labs, arrive on time, and stay for the duration of class/lab, unless prior arrangements have been made. In consideration of your fellow students and overall learning environment, it is expected that cell phones will be turned to silent and that electronic devices will not be used unless it is related to course work/activities.

It is expected that students will adhere to professional standards for all electronic communications. For example, e-mails should have a greeting, full sentences, and a salutation. Please specify the nature of your e-mail in the subject line. Emails will be responded to as quickly as possible, but the instructor will not respond to emails during evening hours or on weekends unless they are of an urgent nature. Instructor communication will only occur through the student's **uleth.ca** email account so be sure to forward this email to any other personal email accounts that you may be using. If you leave a voice mail, be sure to leave your name and telephone number, and indicate the course you are calling about.

**No food is permitted in labs.**

## **PLAGIARISM STATEMENT:**

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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.

## **COPYRIGHT STATEMENT:**

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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](http://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](mailto:copyright@uleth.ca)) for assistance with any copyright questions or issues.

### 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 to set up an appointment at 403-329-2766 <http://www.uleth.ca/ross/counselling/index.html>. 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.

### COURSE AND LAB SCHEDULE (tentative and subject to change):

CLASS	LECTURE TOPIC	CHAPTERS IN TEXT	LAB
1 – Jan 10	Introduction to class		NO LAB
2 – Jan 12	Overview of Anatomy and Physiology	Ch. 1	Lab #1 Introduction to A&P
3 – Jan 17	Structural Organization: Chemical and Cellular	Ch. 2 & 3	Quiz #1
4 – Jan 19	Structural Organization: Introduction to Tissues	Ch. 4	
5 – Jan 24	Integumentary System	Ch. 5	Quiz #2
6 – Jan 26	Skeletal System – Axial	Ch. 7	Lab #2 Axial skeleton
7 – Jan 31	Skeletal System – Appendicular	Ch. 7	Lab #3 Appendicular skeleton
8 – Feb 2	Muscular System – Upper	Ch. 8	
9 – Feb 7	Muscular System – Lower and biomechanics	Ch. 8	Lab #4 Muscles of the body
10 – Feb 9	Nervous System – Introduction	Ch. 11	
11 – Feb 14	Nervous System – CNS	Ch. 12	
12 – Feb 16	Nervous System – PNS	Ch. 13	
Feb 20 – 25	READING WEEK – NO CLASS/LAB		
13 – Feb 28	MIDTERM EXAM	In class exam	
14 – Mar 2	Endocrine System	Ch. 16	Quiz #3
15 – Mar 7	Cardiovascular System – The Heart	Ch. 17	
16 – Mar 9	Cardiovascular System – Blood	Ch. 18	Lab #5 Cardiovascular System
17 – Mar 14	Lymphatic and Immune System	Ch. 20	Quiz #4
18 – Mar 16	Respiratory System	Ch. 21	
19 – Mar 21	Digestive System	Ch. 22	Quiz #5
20 – Mar 23	Digestive System – Nutrition	Ch. 23	
21 – Mar 28	Urinary System	Ch. 24	
22 – Mar 30	Reproductive System	Ch. 26	

<b>CLASS</b>	<b>LECTURE TOPIC</b>	<b>CHAPTERS IN TEXT</b>	<b>LAB</b>
23 – April 4	Body and Health		
24 – April 6	Exam Review		
<b>Date TBA</b>	<b>FINAL EXAM</b>		