

COURSE OUTLINE

BIO-161 – Anatomy & Physiology II
Winter/2013

Lethbridge College provides high quality, innovative programs and services enabling learners to achieve their educational and career goals.

Centre: Applied Arts & Sciences

Instructor: Dic Charge
Office: CB3001
Phone: (403) 320-3202 x5404
Email: dic.charge@lethbridgecollege.ca

Program: Agriculture and Life Sciences

Instructor Availability: as per discussion in class (see my schedule on Angel)

Credits: 4

Chair: Dr. Edith Olson
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Dean: Dr. Sandy Vanderburgh
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Class Time:

Jan. 7 – Feb. 15

C01: WThF 8:30-9:50 am

C09: TW 2-3:20 pm
F 12-1:20 pm

C10: TW 10-11:20 am
F 2-3:20 pm

Feb. 25 – Apr. 12

C01: Th 2:30-4:20 pm

C09: F 12:30-2:20 pm

C10: F 10-11:50 am

Pre-Requisites: None

Location: All classes for all sections will be held in CB3039 both parts of the semester

Co-Requisites: BIO-161 Lab

Open to Prior Learning Assessment:
Yes

Open to Supplemental Exam: No

Course Catalog Description:

This is a continuation of the BIO160 course and completes the study of the systems of the human body. This is a comprehensive study of the respiratory system, circulatory system, blood and lymphatic system, urinary system, nervous system, special senses, endocrine system, and electrolytes. It includes labs on urinalysis and hematology and the identification of internal anatomy, blood vessels and lymphatics, parts of the brain, cranial nerves, spinal nerves, parts of the kidney, eye, and ear. The labs include the use of models and dissections.

Course Outcomes:

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

1. Recognize and name the body organs and blood vessels.
2. Recognize and name the nerve plexuses, cranial nerves, parts of the brain, eyes, and ears.
3. Work in groups in performing dissections and urinalysis.

Recognize blood cells and blood disorders on microscopic examinations.

Course Format/Instructional Method:

This course is offered in a lecture format with 3 x 80-minute lectures each week before Reading Week, and 1 x 110-minute lectures each week after Reading Week. The co-requisite lab is 1 x 50-minutes each week. Support materials can be found on the Angel webspace for the course, as can descriptions of assignments and other study aids. Students are expected to read the assigned readings from the textbook and the lab manual, and to complete various activities as directed by the instructor, including accessing and using the materials and resources listed below.

Required Text(s), Materials, and Technology:

Marieb, E.N., Hoehn, K. (2010), *Human Anatomy & Physiology (8th ed.)*. San Francisco: Pearson Benjamin Cummings
Stewart, R., Lehbauer, S. (2005). *Bio 161 Anatomy and Physiology Lab Manual*. Lethbridge, Alberta. Lethbridge College.

A lab coat is required for all labs.

Other Learning Resources:

1. Optional aid: Krieger, P.A. (2009). *A Visual Analogy Guide to Human Anatomy & Physiology*. Englewood, CO. Morton
2. Relevant videos to be provided in class.
3. Websites to be provided in class and indicated throughout the text.
4. Activities from the publisher's website, access to which is included with a new text.

Learning Café:

Students are encouraged to access the Learning Café (CE1340) for various free services, including academic tutoring support (online and face to face), APA documentation and study skills workshops, peer tutoring, and online learning resources at www.lethbridgecollege.net/elearningcafe

Accessibility Services:

Students requiring academic accommodation (e.g. extra time, separate space, etc.) must register with Accessibility Services to determine eligibility for and implementation of these supports. If you have further questions, please feel free to speak to your instructor or contact Accessibility Services for more information.

Assessments:

Assignments/Exams/etc.	Tentative Dates	Value (% of final grade)
Lecture Exam #1	Week of Jan 21	20 %
Lecture Exam #2	Week of Feb 11	20 %
Final Exam	Registrar Schedules during Exam Week (April 17-19 or 22,23)	25 %
Lab Exam #1	Thursday February 28	12 %
Lab exam #2	Thursday April 11	13 %
Poster	TBA	7%
Quizzes	TBA	3%

Laboratory Schedule

	Date (week of)	Subject
1	Jan 14	Internal Anatomy
2	Jan 21	Pluck – Dissection
3	Jan 28	Heart – Dissection, Bypasses, Angioplasty
4	Feb 4	Blood Vessels, Spirometry
5	Feb 11	Blood slides, Hematocrit
	Feb 18	Reading Week no labs
6	Feb 23	Lab Exam – 12% actual date – Thursday, February 28
7	March 3	Urinalysis
8	March 11	Brain and Ventricles
9	March 18	Nerves - Plexuses

10	March 25	No Labs – Good Friday
11	April 1	Cranial Nerves, Spina Bifida, Ear, Eye, Eye tests * Monday Lab Sections cancelled - Easter Monday – students are responsible for attending lab another day.
12	April 11	Lab Exam – 13% actual date – Thursday, April 11

Grading:

Official final grades will be available on Web Advisor. Grades posted in Angel should be considered interim grades.

Grading System:

Letter Grade	Percentage	G.P.A.	Definition
A ⁺	95 – 100	4.0	Excellent
A	90 – 94	4.0	Excellent
A-	86 – 89	3.7	Excellent
B ⁺	80 – 85	3.3	Good
B	76 – 79	3.0	Good
B-	70 – 75	2.7	Good
C ⁺	67 – 69	2.3	Satisfactory
C	63 – 66	2.0	Satisfactory
C-	60 – 62	1.7	Satisfactory
D ⁺	55 – 59	1.3	Minimal Pass
D	50 – 54	1.0	Minimal Pass
F	0 – 49	0.0	Failure

Program/Course Attendance Requirements (if applicable):

Although there are no formal attendance requirements, it is expected at the college level that students take responsibility for their own education. This means that students are expected to a) attend all classes (arriving on time), b) keep up with their studies on a day-by-day basis in all courses, and c) schedule their work in all courses such that they can keep up with every requirement in every course (good time management is a necessary skill to acquire and enhance during post-secondary training).

Students **MUST** determine where in a course they need help themselves, and they must do so in a timely manner – while the instructor is available to offer assistance, the student is the one responsible for meeting the demands of this, and every, course.

General Course Expectations:

Science learning is very much about learning the language of science, and to that end, the instructor will engage the learners in discussion of the lecture materials as much as possible. Frequent questions from the instructor and from the course participants is a valued method of learning how to incorporate the knowledge targeted by this course. Independent thought is encouraged, with the aim of helping learners to assimilate the course material and integrate it within their own knowledge base. Class discussions and group discussions will form part of the learning experience so that every learner has the opportunity to use this new language and become familiar with the topics of this field of study.

Students are expected to attend all scheduled classes. Both research and experience have concluded that missing classes leads to lower grades. Missed lectures are the responsibility of the learner and not the instructor, and learners are expected to determine what material was missed from course schedules, notes and peers, and to make the necessary remedial efforts on their own. Any missed or late evaluations will receive a grade of zero (0) unless the absence/lateness is excused with appropriate documentation such as a doctor's note **CLEARLY** stating that the student was unable to attend to her/his responsibilities as a student **on the date of the evaluation**. Any missed grading opportunities **SHOULD** be reported to the instructor **IN ADVANCE** wherever possible.

Students are strongly urged to recognize the dates that Lethbridge College has designated for the entire semester and to avoid making plans during weeks of classes and exams. **NO** allowance will be made if you choose to depart Lethbridge prior to the end of the term (after the exam period).

Institutional Practices

Course Work Used as Examples:

Should your instructor wish to use your work in future educational purposes, you will be asked to complete and sign a Student Release Form, authorizing both the instructor and/or the College to use your course work. This form, along with a copy of your work, is retained in the official copyright files located in the College's Intellectual Property Office. If you have any questions regarding Copyright and/or Intellectual Property, please contact the Intellectual Property Office.

Retention of Assignments and Exams:

Examinations/assignments NOT intended to be returned to students will be retained for at least one year from the end of the term. Examinations/assignments intended to be returned to students but are not picked up by students will be retained to the end of the final grade appeal period. After the appropriate retention period, records will be destroyed in a secure manner.

Academic Honesty:

Academic Honesty is necessary for students to achieve excellence and for the preservation of the integrity and reputation of the course, the program and of Lethbridge College as an institution. Lethbridge College supports and demands academic honesty in all academic learning activities.

Plagiarism is a serious offence and will be handled in accordance with Lethbridge College policy. The penalties for plagiarism vary in degrees but may result in expulsion from the Lethbridge College.

Lethbridge College uses plagiarism detection software such as Turnitin.com. Students should be aware that if their paper is submitted to a plagiarism detection service, a copy of their paper is retained as a source document in its reference database. As the author, the student retains ownership of the paper submitted.

Recording of Classes:

An audio recording is permitted only with the prior written consent of the instructor or if recording is part of an approved accommodation plan. Such a recording is for the personal use only of the student who has permission to record. Following the course all such recordings must be destroyed.

Important Note:

Students should be aware of policies and procedures that may impact them directly. More information can be found at <http://www.lethbridgecollege.ca/about-us/policies-procedures>.