

## **Fundamentals of Human Biology Bio 200-A (3 credits)**

Winter 2017 Mon-Wed 13:15 - 14:30 (Jan. 9- Apr. 13)

Location: H435 SGW (Downtown campus)

Professor: Dr. Andrea Shatilla (andrea.shatilla@concordia.ca)

office hours: Mondays after class, or by appointment

### **Course Description as per Undergraduate Calendar:**

**BIOL 200 Fundamentals of Human Biology (3 credits)** A series of lectures, demonstrations, and seminars to provide non-biologists with a general survey of the fundamental principles of life, with special emphasis on the structures and functions of human beings. Lectures only.

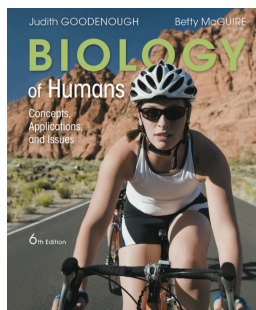
NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit. Students who have completed Cegep Biology 921/931 may not take this course for credit.

### **Course Objectives:**

This course aims to provide students who have little or no scientific background with a general introduction to human biology as it relates to their daily lives. Students will develop some of the tools necessary to process and critically evaluate for scientific merit, the large amounts of health-related information regularly available to the public. This course will assist students in making informed health-related choices.

### **Required Text:**

Please order ISBN 9780134389233 to obtain digital access to the following text as well as the Mastering Biology study tools and assignment questions.



If using a credit card, the above package can be obtained at the Pearson website <http://www.mypearsonstore.ca/>

For students who do not have a credit card, the package can be purchased at the Concordia Campus eBookstore.

**To access the course on the Pearson website, course ID: MBSHATILLA85535**

**Topics Covered (not necessarily in the following order):**

- Basic Characteristics of Living organisms
- Scientific Method
- Basic Chemistry: atoms, molecules, compounds, chemical bonds, biological macromolecules
- Cell Structure and Function
- Tissues and Organ Systems
- Homeostasis
- Skeletal System
- Muscular System
- Endocrine System
  - Special Topic: Diabetes Mellitus
- Sensory Systems
- Nervous System
- Cardiovascular System
  - Special Topic: Cardiovascular Disease, Stroke
- Respiratory System
  - Special Topic: Lung Cancer
- Blood
- Immune System
  - Special Topic: Infectious Diseases and problem of Antibiotic Resistance
- Digestive System
  - Special Topic: Diet, Malnutrition and Obesity
  - Special Topic: Genetically Modified Foods (Forum 1)
- Excretory System
- Human Genetics
  - Special Topic: DNA Damage, DNA Repair and Cancer
  - Special Topic: Getting your DNA sequenced (Forum 2)

## Course load:

As per the undergraduate calendar,

“Each credit represents a minimum of 45 hours of academic activity, including lectures, tutorials, laboratories, studio or practice periods, examinations, and personal work.”

For a 3 credit course, **minimum** academic activity corresponds to 135 hours for the entire semester.

## Rights and Responsibilities:

please visit the following site for a list of rights and responsibilities:

<http://www.concordia.ca/academics/undergraduate/calendar/current/17-30.html>

Students are responsible for consulting the course web site on MOODLE on a regular basis. Important announcements regarding the course, as well as extra reading material and study aids will be posted on MOODLE regularly. The MOODLE website is the final authority where ambiguity or confusion may exist on any pedagogical matters discussed in class. Students are expected to be on time for classes. Cellular phones **MUST** be turned off and put away during the class time.

## Students with Special Needs:

Students with special needs are required to advise me by email within the first week. Please write in subject heading "Special Needs".

Students with schedule conflicts of any sort (religious holidays, etc.) must advise me by email within the first week. Please write in subject heading "Schedule Conflicts".

## Course Evaluation:

Midterm Exam:	35%	Wed. Mar. 8, 2017
Online Assignments:	12%	periodically throughout the semester
Online Forum 1:	4%	opens Jan. 29
Online Forum 2:	4%	opens Mar. 12
Final Exam:	45%	as scheduled by university examinations office

The final exam is cumulative. It covers material from the entire course.

All components of this course are mandatory. There is only 1 midterm exam. No alternate midterm exams will be provided. Students who are unable to write the midterm (with a valid medical note) will have their final exam count for 80%.

### **Online Forums:**

Each discussion forum will be opened for 3 weeks. Students are expected to post at least 1 comment within the first week and at least 1 comment within the 2nd or 3rd weeks. Failure to do so will result in loss of marks. Marks will be based on the quality of each student's contribution to the forum.

### **Midterm and Final Exams:**

Multiple choice (with up to 6 choices for each question).

Short answer questions (1-4 sentences).

Fill in the blanks.

Labelling of diagrams.

Matching terms to definitions.

There is ZERO tolerance for any form of cheating or plagiarism.

Students who arrive late for exams held in class will NOT get extra time. They are expected to hand in the exam at the same time as the rest of the class. If they arrive more than 30 minutes after the start of the exam, they will not be permitted to write the exam and NO replacement exam will be offered.

All exam copies MUST be turned in prior to leaving the room.

First name, last name and student # must be **CLEARLY** marked on all exam sheets and lab reports. Failure to do so will result in loss of marks. NO EXCEPTIONS.

There is no supplemental Final exam offered for students who fail this course.

In the Biology Department, we use the following scheme to translate numbers to letter grades:

A+	≥ 90	C+	= 67-70
A	= 85-90	C	= 64-67
A-	= 80-85	C-	= 60-64
B+	= 77-80	D+	= 57-60
B	= 74-77	D	= 54-57
B-	= 70-74	D-	= 50-54
		F	<50

**Disclaimer:** "In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change".