



UNIVERSITY OF CALGARY

DEPARTMENT OF BIOLOGICAL SCIENCES COURSE OUTLINE

1. **Course:** **BIOLOGY 305 - THE HUMAN ORGANISM**

Course Email: Bio305@ucalgary.ca

Lecture Section(s): L01: MWF 13:00-13:50 ICT 122 Fall 2015

Instructor(s): Dr. C. Flynn BI 238B 220-5055
Dr. C. Finney BI 461 220-2687
Dr. C. Shemanko BI 238C 220-3861

Desire 2 Learn: BIOL 305 L01 – (Fall 2015) – The Human Organism

Biological Sciences Department BI 186 403-220-3140 biosci@ucalgary.ca

2. **Prerequisites:** One of Biology 30 or 205 or 231 or 241

ANTIREQUISITE(S): Credit for Biology 305 and any of Kinesiology 259, 260, Zoology 269, 361, 363, 461, or 463 will not be allowed.

Note: Not open for credit to Honours, Majors and Minors in the Department of Biological Sciences or to Natural Science program students with a Concentration in Biological Sciences.

3. **Grading:** The University policy on grading and related matters is described sections [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Exam #1	Wednesday, Oct 21 st , 7:00 – 8:30 p.m. – ST135, ST140, ST145	30%
Exam #2	Wednesday, Nov 25 th , 7:00 -8:30 p.m.. – ST135, ST140, ST145	35%

Final Exam Scheduled by the Registrar's Office		35%
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4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student's responsibility to familiarize himself/herself with these regulations. See also [Section E.6](#) of the University Calendar

5. **Scheduled out-of-class activities:** Dates and times of approved class activities held outside of class hours.

Exam #1	Wednesday, Oct 21 st , 7:00 – 8:30 p.m.	ST135, ST140, ST145
Exam #2	Wednesday, Nov 25 th , 7:00 -8:30 p.m.	ST135, ST140, ST145

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

6. **Course Materials:** Recommended Textbook:
Human Biology: Concepts and Current Issues. 7th Ed., Johnson, Michael D., Pearson

7. **Examination Policy:** Exams will consist of multiple choice and short answer questions. Non-programmable calculators will be allowed. Students should also read the Calendar, [Section G](#), on Examinations.

8. ETHICS IN THE BIOLOGICAL SCIENCES

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Undergraduate Program Director of the Department.

9. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **Academic Misconduct:** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties
- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Student Accommodations:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students *with Disabilities available at http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf*.

Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Biological Sciences, Dr. H. Addy by email addy@ucalgary.ca or phone 403 220-3140.
- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also
- (f) <http://www.ucalgary.ca/secretariat/privacy>.
- (g) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: suvpaca@ucalgary.ca
SU Faculty Rep. Phone: 403 220-3913 Email: science1@su.ucalgary.ca,
science2@su.ucalgary.ca and science3@su.ucalgary.ca;
Student Ombuds Office: 403 220-6420 Email: ombuds@ucalgary.ca; <http://ucalgary.ca/provost/students/ombuds>
- (h) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (i) At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference - please participate in USRI Surveys.

Department Approval ORIGINAL SIGNED _____ Date _____

Associate Dean's Approval for
out of regular class-time activity: ORIGINAL SIGNED _____ Date: _____
B305 co F15; 08/09/2015 15:13

DEPARTMENT OF BIOLOGICAL SCIENCES

COURSE OUTLINE

BIOLOGY 305

THE HUMAN ORGANISM

TERM: Fall 2015 SECTION NO: L01

PREREQUISITE(S): One of Biology 30 or 205 or 231 or 241

A student may not register in a course without having attained a grade of at least C- in each prerequisite course.

COURSE EMAIL: Bio305@ucalgary.ca

LECTURER(S): Dr. C. Flynn BI 238B 220-5055
Dr. C. Shemanko BI 238C 220-3861
Dr. C. Finney BI 461 220-2687

LECTURES: See following page.

TEXTS: Recommended Human Biology; Concepts and Current Issues. 7th Ed., Johnson, Michael D., Pearson

MARK DISTRIBUTION: Composition of Final Grade

1. Exam #1 30%
Material covered in lectures Sept 9 – Oct 5
Wednesday Oct 21st, 7:00 -8:30 p.m.
Location: ST135, ST140, ST145
2. Exam #2 35%
Material covered in lectures Oct 7 – Nov 4
Wednesday, Nov 25th, 7:00-8:30 p.m.
Location: ST135, ST140, ST145
3. Final Exam 35%
Material covered in lectures Nov 6 – Dec 7
Registrar scheduled final exam

Letter grade conversion scheme for Biol 305:

91	A+
86	A
81	A-
76	B+
71	B
67	B-
63	C+
59	C
55	C-
50	D+
45	D
below 45	F

BIOLOGY 305 – Fall 2015

Dates	Lecture Topic	Lecturer	Reading Assignment
Sept. 09 11	Structure and Function of Cells	Dr. Finney	Chapter 3
14 16 18	From Cells to Organ Systems	Dr. Finney	Chapter 4
21 23 25	Blood	Dr. Finney	Chapter 7
28 30 Oct. 02	The Immune System and Mechanisms of Defence	Dr. Finney	Chapter 9
05 07 09	The Muscular System	Dr. Flynn	Chapter 6
12 14 16	NO CLASS – Thanksgiving Heart and Blood Vessels	Dr. Flynn	Chapter 8
19 21 23	**Exam #1 (7:00-8:30pm, ST135, ST140, ST145)** The Nervous System: Integration and Control	Dr. Flynn	Chapter 11
26 28 30	Sensory Mechanisms	Dr. Flynn	Chapter 12
Nov. 02 04 06	DNA Technology and Genetic Engineering	Dr. Shemanko	Chapter 20
09 11 13	NO CLASS – Reading Break NO CLASS – Reading Break		
16 18 20	The Endocrine System	Dr. Shemanko	Chapter 13
23 25 27	Cell Reproduction and Differentiation **Exam #2 (7:00pm-8:30, ST135, ST140, ST145)**	Dr. Shemanko	Chapter 17
30 Dec. 02 04	Cancer: Uncontrolled Cell Division and Differentiation	Dr. Shemanko	Chapter 18
07			