



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF BIOLOGICAL SCIENCES
COURSE OUTLINE

1. Course: **BCEM 731 – Current Topics in Biochemistry**

FALL 2015

Instructor(s):	Dr. H.J. Vogel	BI 423	220-6006	vogel@ucalgary.ca
	Dr. G. Moorhead	BI 144A	220-6238	moorhead@ucalgary.ca
	Dr. M. Fraser	BI 413	220-6145	frasm@ucalgary.ca
	Dr. P. Tieleman	BI 415	220-2966	tieleman@ucalgary.ca
	Dr. S. Noskov	BI 447	210-7971	snoskov@ucalgary.ca

(Plus several Guest Lecturers)

D2L course name BCEM 731

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

2. **PREREQUISITES:** Consent of Coordinator

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:

Tutorial Assignments (5)	75%
Term Paper	25%

Each piece of work (assignment) submitted by the student will be assigned a percentage score. The student's average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade, bearing in mind that each assignment must receive a passing mark in order to pass the course.

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. Dates and times of class exercises held outside of class hours: N/A

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. **EXAMINATION POLICY:** No electronic or written aids (eg. cell phones, tablets, computers, PDAs, notes, textbooks) will be allowed during writing of any exams. Non-programmable calculators will be permitted to answer quantitative questions on exams, if applicable, and permission to do this will be clearly indicated on the examination paper. Students should also read the Calendar, [Section G](#), on Examinations.

7. **Writing across the curriculum statement:** e.g. "In this course, the quality of the student's writing in laboratory reports will be a factor in the evaluation of those reports." See also [Section E.2](#) of the University Calendar.

8. **Human studies statement:** indicating whether students in the course may be expected to participate as subjects or researchers. See also [Section E.5](#) of the University Calendar.

STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS. See also <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>.

9. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**

- (a) **Misconduct:** 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 <http://www.ucalgary.ca/secretariat/privacy>.

- (f) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: suypaca@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>

- (g) **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.

- (h) **U.S.R.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 _____

Department Approval
No Final Exam: _____ **ORIGINAL SIGNED** _____ Date: _____
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UNIVERSITY OF CALGARY
DEPARTMENT OF BIOLOGICAL SCIENCES
COURSE OUTLINE

BCEM 731

Current Topics in Biochemistry

TERM: Fall 2015 SECTION NO.: 01

PREREQUISITE(S): Consent of Coordinator

Coordinator:	Dr. H.J. Vogel	BI 423	220-6006	vogel@ucalgary.ca
Instructors:	Dr. H.J. Vogel	BI 423	220-6006	vogel@ucalgary.ca
	Dr. G. Moorhead	BI 144A	220-6238	moorhead@ucalgary.ca
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	Dr. S. Noskov	BI 447	210-7971	snoskov@ucalgary.ca

(Plus Guest Lecturers e.g. Dr. Reza Dowlatabadi, rdowlata@ucalgary.ca)

TEXT: Required: None

Recommended: None

MARK DISTRIBUTION: A. Composition of Final Grade

Tutorial Assignments (5)	75%
Term Paper	25%

B. Final Exam

There will **NOT** be a Final Examination scheduled by the Registrar's Office.

C. Components of course for which a passing grade is essential

Each assignment must receive a passing mark in order to pass the course.

Grading Chart

A+ = 92%
A = 85%
A- = 80%
B+ = 77%
B = 74%
B- = 70%
F < 70%

BCEM731 2015

For the selected topics below the instructor noted will give 2-3 hours of introductory lecture to introduce the topic on the first date given. At the end of the lecture students are given suggestions for papers to read. Each student (or sometimes in groups of two) gives a presentation on that paper at the next meeting (that will occur 1 week later) followed by a discussion. The final schedule will have to be worked out in consultation with the students. The students will also write a term paper that will count for 25% of their final grade.

Lecture & Presentation Schedule - BCEM 731 Fall 2015 Room Bio 312

The general theme of the lectures is biochemistry towards pharmaceutical applications

We will normally meet on Monday evenings at 6 pm, but this is not always possible due to special holidays (e.g. Thanksgiving – October 12th, or Remembrance Day – November 11th, Reading Days November 11th - 13th).

September 16 (Note: Wednesday) and 21 (Monday): Dr. Hans Vogel: Metabolomics

September 28 and October 05: Dr. Reza Dowlatabadi: Proteins and drugs in pharmacy

October 13 (Tuesday) and October 19 (Monday): Dr. Peter Tieleman: Computational Methods in drug design

October 26 and November 02: Dr. Greg Moorhead: Protein phosphorylation as a regulatory mechanism

November 9 and November 16: Dr. Sergei Noskov: Computer Modeling of Biochemical Phenomena

November 23 and November 30: Dr. Marie Fraser: Proteins as targets in the pharmaceutical industry

December 7: Possible Guest Lecture; Close-out, Dr. Hans Vogel

Term Paper due Monday, December 07 at noon, 2015

Term Papers:

The paper will be in the format of a comprehensive review paper. The topic will be provided in early November by the course coordinator.