Biochemistry 3D03: Metabolism and Regulation

Contact Information

Instructor
Michelle MacDonald
macdonml@mcmaster.ca
Ext. 22316
Office: HSC 4H45
Office Hours: At your convenience

Teaching Assistants

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>Sarah Mishriki</td>
<td><a href="mailto:mishrs4@mcmaster.ca">mishrs4@mcmaster.ca</a></td>
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<td>Monica De Paoli</td>
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<td>Andrew Tupper</td>
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Course Website
Course information will be posted on Avenue to Learn. Please check Avenue daily for important information and notices. In addition, partial class notes will normally be posted the night before class meetings. We will expand on these partial notes in class, in addition to discussion of case studies and current research. Attendance in class is therefore imperative.

Course Description
An introduction to key principles in intermediary metabolism. The course will cover principles of bioenergetics, major pathways for carbohydrates, proteins and lipids in energy production, nitrogen metabolism, biosynthesis of small molecules, as well as the integration and regulation of metabolic activities.

Tuesday 12:30-1:20
Wednesday 12:30-1:20
Friday 12:30-1:20

Term 1
BSB B136

Mid-term recess: October 8-12

Materials
Textbook
**Biochemistry, 1st Canadian Edition** by Garrett (optional)
This book is available at the Campus Store and is the same text that was used last year if you took Biochemistry 2B03.

Calculator
Only the McMaster standard calculator (Casio fx-991MS) will be allowed during all tests and exams. It is available at the Campus Store.

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### Course Requirements

#### Grade Breakdown and Test Dates

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<thead>
<tr>
<th>Item Graded</th>
<th>% of Final Grade</th>
<th>Date</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>30%</td>
<td>October 17 in class Andrew and Sarah</td>
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<tr>
<td>Test 2</td>
<td>30%</td>
<td>November 28 in class Monica and Meghan</td>
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<tr>
<td>Project</td>
<td>33%</td>
<td>December 14</td>
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<tr>
<td>Pre-reflection</td>
<td>2%</td>
<td>September 28</td>
</tr>
<tr>
<td>Post-reflection</td>
<td>5%</td>
<td>December 4</td>
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**Late Work**
Late penalties will be assessed at 10% per day, including weekends. After 3 days, the assignment or test 3 will not be accepted and a grade of 0 will be assigned.

**Missed Work**
If you are absent from the university for a minor medical reason, lasting fewer than 3 days, you may report your absence, one per term, without documentation, using the McMaster Student Absence Form ([http://www.mcmaster.ca/msaf/](http://www.mcmaster.ca/msaf/)). Absences for a long duration or for other reasons must be reported to the Associate Dean of Science office, with documentation, and relief may not necessarily be granted. After filling out the MSAF you must immediately contact your course instructor (normally within 2 working days) by email to learn what relief may be granted for the work you have missed and relevant details for submission or location of make-up test. Please note that the MSAF may not be used for term work worth 30% or more, nor can it be used for the final exam.

**Remarking Work**
If you would like to have any work regraded, please adhere to the Department of Biochemistry and Biomedical Sciences Regrading Policy available here: [http://fhs.mcmaster.ca/biochem/undergraduate/forms_and_procedures.html](http://fhs.mcmaster.ca/biochem/undergraduate/forms_and_procedures.html) under ‘Regrading Requests’.
Academic Integrity
You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity. Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: “Grade of F assigned for academic dishonesty”), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at www.mcmaster.ca/academicintegrity.

The following illustrates only three forms of academic dishonesty:
1. Plagiarism, e.g. the submission of work that is not one's own or for which other credit had been obtained.
2. Improper collaboration in group work.
3. Copying or using unauthorized aids in tests and examinations.

Course Online Content
In this course we will be using (email, Learn Link, Avenue to Learn, etc.). Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster email accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure. If you have questions or concerns about such disclosure, please discuss this with the course instructor.

Student Accessibility
Students who require academic accommodation must contact Student Accessibility Services (SAS) to make arrangements with a Program Coordinator. Academic accommodations must be arranged for each term of study. Student Accessibility Services can be contacted by phone 905-525-9140 ext. 28652 or e-mail sas@mcmaster.ca. For further information, consult McMaster University’s Policy for Academic Accommodation of Students with Disabilities.

Changes to the Course Outline
The instructor and University reserve the right to modify elements of the course during the term. The University may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and opportunity to comment on changes. It is the responsibility of students to check their McMaster email accounts and course websites weekly during the term and to note any changes.