Course: Biochemistry 3D03: Metabolism and Regulation

Term: Term 2

Location: Health Sciences Centre 1A6

Hours: Monday, Wednesday and Thursday from 1:30-2:20

Instructor: Michelle MacDonald

Instructor Contact: macdonml@mcmaster.ca, HSC 4H44, Ext. 22316, and the Biochemistry 3D03 LearnLink course folder. Please do not hesitate to contact me any time you need help. I am available by email, phone or on a drop-in basis if I am in my office, or send me an email to set an appointment for us to meet at a mutually convenient time. I check my email and LearnLink course folder frequently and I endeavour to respond to you within 24 hours. Please feel free to contact me if you have any questions, require further support or have concerns about the course, and I will do my best to address these in a timely manner to ensure the smoothest possible delivery of this course.

LearnLink: In this course, we will be using LearnLink. 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 e-mail 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 any questions or concerns about such disclosure please discuss this with the course instructor.

To access LearnLink, please go to www.learnlink.mcmaster.ca. To login to your account, use the following default information:

User ID: Firstname.Lastname
Password: Your 7-digit student number

In cases with hyphenated names, please include the hyphen. Neither user ID, nor password are case-sensitive. If you have any problems logging in, please contact the LearnLink administrator at admin@learnlink.mcmaster.ca.

Please consult LearnLink regularly for important announcements and please post all course-related questions to the LearnLink course folder so that all course participants can benefit from my response. The additional benefit is that other course participants may also respond to your question sooner than I can!

Teaching Assistants: Jason DeMelo (demeloja@mcmaster.ca)
Salma Alkarmi (alkarms@mcmaster.ca)
Lindsay Kalan (kalanlr@mcmaster.ca)

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, photosynthesis, as well as the integration and regulation of metabolic activities.


Course Overview and Assessment:

Test 1 15% in class February 16
Test 2 30% in class March 23
Enzyme presentation 10% scheduled throughout the term (sign up for a time slot)*
Critical analysis of a research article 15% due February 18 by 11:59 pm in drop-box outside HSC 4H39
Project 30% due by April 7 by 11:59 pm in drop-box outside HSC 4H39
Final exam (% of test missed) only written if missed test (during final exam period in April)
Project proposal (worth 5% of project grade) due February 4 by 11:59 pm in drop-box outside HSC 4H39
Additional information and full details for each element will be posted on LearnLink.

*Students are responsible for signing up with a group and completing the enzyme presentation on one of the dates allotted in the schedule.

**Note:** Electronic submissions will not be accepted.

**Important:** To avoid the necessity of a formal appeal for reassessment of final grades, please ensure that any concerns you may have regarding your marks are brought to the attention of the TA within **one week** of the return of the paper/project/other course requirement in class.

**Late Penalties:** The late penalty for submitted work is 10% per day. No work will be accepted after 3 days.

**Missed Work:** The University wishes to assist students with legitimate difficulties. It also has the responsibility to ensure that degree, program and course requirements are met in a manner that is equitable to all students. Students may petition the office of the Associate Dean of Science for special consideration when there are compelling medical, personal or family reasons to justify an exception to University regulations.

Failure to obtain special consideration from the Associate Dean for medical or legal conflicts will result in an automatic zero for the portion of the course missed. If you do receive an exemption from the Associate Dean, the instructor will be notified. If you were unable to meet a due date, the student will make arrangements with the instructor for submission of the work at another time. The proportion of a missed test will be automatically reweighed to the final exam.

**Requests for Relief for Missed Academic Term Work For Absences From Classes Lasting Up to 5 Days:** Using the McMaster student absence form (MSAF) on-line, self-reporting tool, undergraduate students may report absences lasting up to 5 days and may also request relief for missed academic work. The submission of medical or other types of supporting documentation is normally not required. Students may use this tool to submit a maximum of two requests for relief of missed academic work per term. Students must immediately follow up with their course instructors regarding the nature of the relief. Failure to do so may negate the opportunity for relief. It is the prerogative of the instructor of the course to determine the appropriate relief for missed term work in his/her course.

The MSAF on-line, self-reporting tool cannot be used to apply for any final examination or its equivalent. See **Petitions for Special Consideration** in the Undergraduate Calendar.

**Academic Integrity:** You are expected to exhibit honesty and use ethical behavior 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 [http://www.mcmaster.ca/academicintegrity](http://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 has been obtained.
2. Improper collaboration in group work.
3. Copying or using unauthorized aids in tests and examinations.

**Note:** 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 the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.