

Chemistry 9563Q Total Synthesis

Instructor: Dr. Michael A. Kerr ChB 219

Class Times Friday 1:00-3:30 (with a break) MSA 0204
Start date: Jan 13th
End date: Feb 17th

Office Hours: by appointment

Course material

This course will introduce the student to the total synthesis of complex target molecules; in this case natural products. The course material will consist of the study and dissection of recent and classic examples of total syntheses from the literature. It is expected that this course will be of appeal to a broad spectrum of students and not just those engaged in organic synthesis. All that is required is a solid footing in organic chemistry.

Text and other Purchases (not necessary but a good thing to have access to):

- *Strategic Applications of Named Reactions in Organic Synthesis*, by Kürti and Czakó (available in the bookstore)
 - *Organic Chemistry* by Clayden, Greeves, Warren and Wothers is a good text of core material
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Evaluation:

The final grade for the course will be determined by the following:

In class participation	20%
Research proposal in which the student will design a viable synthetic route to a complex natural product. I will be available for consultation during this process.	40%
Presentation of the research of a world class total synthesis research group (I will have more to say about this in class)	40%

Students are required to attend 100% of the classes with the exception of emergency situations or my permission.

Course attendance and missed assignments/tests/exams:

Course attendance is mandatory. Appeals related to information missed due to course absences will not be considered for the basis of a grade appeal.

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. The weight of missed course material will be transferred to the final examination in cases where medical accommodation has been granted.

Notes on Academic Honesty:

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_grad.pdf

All required papers may be subject to submission for textual similarity review to the commercial plagiarism-detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system.

Health and Wellness:

As part of a successful graduate student experience at Western, we encourage students to make their health and wellness a priority. Western provides several on campus health-related services to help you achieve optimum health and engage in healthy living while pursuing your graduate degree. For example, to support physical activity, all students, as part of their registration, receive membership in Western's Campus Recreation Centre. Numerous cultural events are offered throughout the year. For example, please check out the Faculty of Music web page <http://www.music.uwo.ca/>, and our own McIntosh Gallery <http://www.mcintoshgallery.ca/>. Information regarding health- and wellness-related services available to students may be found at <http://www.health.uwo.ca/>. Students seeking help regarding mental health concerns are advised to speak to someone in whom they feel comfortable confiding, such as their faculty supervisor, their program director (graduate chair), or other relevant administrators in their unit. Campus mental health resources may be found at http://www.health.uwo.ca/mental_health/resources.html.