Chemistry 9563: Total Synthesis

Instructor: M.A. Kerr, ChB 219

Course Description: An introduction to the strategic design of synthetic routes for the preparation of complex target molecules from readily available starting materials. A discussion of advanced synthetic methods will be presented in the context of their utility in the synthesis of natural and unnatural targets. Synthetic efficiency, terminology, and a discussion of stereoselectivity will also be discussed in the above context.

Lectures and Schedule: 3 hours per week

Weight: .25

Evaluation:
- Weekly assignments 30%
- Presentation of a literature synthesis 30%
- Defense of an original research proposal 30%

Recommended Texts:

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: http://www.uwo.ca/univsec/handbook/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. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (http://www.turnitin.com).

Graduate Course 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 they feel comfortable confiding in, 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.