

The University of Western Ontario  
Chemistry 9823, Fall 2025  
**Heterocycles**

**Instructor:**

Name: Dr. Michael A. Kerr

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**Enrollment:**

No enrollment cap

**Description:**

Heterocyclic compounds are key subunits in both pharmaceutical, naturally occurring compounds, and compounds with applications in materials science. This course will cover both fundamental and newly developed methods for the formation of heterocycles as well as their inherent reactivity.

**Topics:** Properties and description of heterocyclic compounds, reactivity of oxygen, nitrogen and sulfur heterocyclic compounds, synthesis of oxygen, nitrogen, and sulfur heterocyclic compounds.

**Resources:**

**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)

**Lectures / seminars:**

Day/s: Monday, Wednesday

Time/s: 12:30 pm -2:00 pm in ChB 9

Classes begin September 8 and end October 20

**Evaluation**

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

In class participation	20%
Presentation of a current heterocyclic methodology	40%
Final exam    October 25 (location TBA)	40%

### **Course attendance and missed/late assignments**

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.

### **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](http://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 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>).

A Note About AI: While AI may be used as a resource tool, all work presented must be original. Any use of AI to represent your own work will be regarded as plagiarism and will be regarded as an academic offence.

### **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](http://www.health.uwo.ca/mental_health/resources.html).