

# CHM 4328 – Winter 2017

## **Part 1** (January 10 - February 16)

**Professor :** Dr. Louis Barriault  
**Office :** TBT-364  
**Phone :** 562-5800 extension: 6076  
**Email :** [lbarriau@uottawa.ca](mailto:lbarriau@uottawa.ca)

## **Part 2** (February 28 - April 6)

**Professor :** Dr. Fabien Gagosz  
**Office :** DRO 404  
**Phone :** 562-5800 extension: 4420  
**Email :** [fgagosz@uottawa.ca](mailto:fgagosz@uottawa.ca)

**Web site:** <http://science.uottawa.ca/chemistry/people/barriault-louis> for Dr. Barriault  
**Blackboard** (<https://uottawa.blackboard.com/>) for Dr. Gagosz

## COURSES - SCHEDULE

Start :	January 10	Reading week :	February 19-25.
End :	April 6	Examen final :	April 11-28
Tuesday	10h00 – 11h30	801 King Edward (SCS) E217	
Thursday	08h30 – 10h00	801 King Edward (SCS) E217	

## OFFICE HOURS

Only by appointment (Dr. Barriault & Dr. Gagosz)

## EVALUATION

- **Assignments:** **20%**  
4 assignments (2 for Part 1; 2 for Part 2 – 5% each) will be posted on-line
- **Mid-term exam** (Part 1 Dr. Barriault): **30%**  
Saturday March 4, 2017
- **Cumulative final exam** (Part 1 & 2): **50% \***

**\* Students must pass the final exam (> 49.5%)** in order to get all the assignment marks count in the final grade

## GENERAL COURSE OUTLINE

### • Part 1

1. Review on reaction mechanism including Curtin-Hammett principle, Hammond's postulate, microscopic reversibility and frontier molecular orbital theory
2. Retrosynthetic analysis, bond disconnection strategy and tactics
3. Review and analysis of various total synthesis of natural products

### • Part 2

1. Development of new synthetic methods
2. Applications in synthesis

## REFERENCE BOOKS

1. Organic Chemistry, Clayden, Greeves, Warren, and Wothers
2. Classics in Total Synthesis, Nicolaou and Sorensen
3. The Logic in Chemical Synthesis, Corey and Cheng

## REVISION OF EXAMS

Assignments and exams could be submitted for re-grading providing a detailed written note outlining all reasons why your answer should be considered for a re-grade (i.e. what was missed in your original answer etc.). This should be done within seven days after the assignment has been returned to you. We reserve the right to re-grade the whole assignment and exams if appropriate.

## FOR STUDENTS IN NEED OF LEARNING SUPPORT

Students who require accommodations or academic support because of a physical or learning disability, or any condition that affects their ability to learn, are invited to register with **ACCESS SERVICE**:

In person: UCU 339  
Telephone: 562-5976  
TTY: 562-5214  
E-mail: [adapt@uottawa.ca](mailto:adapt@uottawa.ca)  
Web: [www.sass.uottawa.ca](http://www.sass.uottawa.ca)

Students can then meet with an Access Service specialist to identify their individual needs and to discuss appropriate interventions.

## IMPORTANT DATES TO REMEMBER

**For requesting accommodations for a mid-term examination:** Requests must be submitted at least **7 days** (not including the day of the exam nor any statutory holiday) prior to the writing date of mid-terms, tests, quizzes or other forms of written evaluations.

**For requesting accommodations for final exams:**

Fall Semester: *before 15 November*

Winter Semester: *before 15 March*

Spring/Summer Semester: **7 days** *prior to the exam* (not including the day of the exam nor any statutory holiday)

**Please consult these following sites for information on:**

Examination: <http://science.uottawa.ca/en/students-etudiants/exams>

Academic fraud: <http://www.uottawa.ca/administration-and-governance/academic-regulation-14-other-important-information>

Sexual harassment: <http://www.uottawa.ca/administration-and-governance/policy-67-sexual-harassment>.