

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

<b>Course Code and Number:</b> CHEM 412		<b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>															
<b>Course Full Title:</b> Special Topics in Chemistry																	
<b>Course Short Title:</b> (Transcripts only display 30 characters. Departments may recommend a short title if one is needed. If left blank, one will be assigned.)																	
<b>Faculty:</b> Faculty of Science		<b>Department (or program if no department):</b> CHEMISTRY															
<b>Calendar Description:</b> Designed for students who wish to examine in greater depth a particular topic in chemistry.  Note: Offered either as an individual reading course or as a seminar, depending on student and faculty interest.  Note: This course will be offered under different letter designations (e.g. C-Z) representing different topics, and may be repeated for credit provided the letter designation differs.																	
<b>Prerequisites (or NONE):</b>		Any two 300-level CHEM courses.															
<b>Corequisites (if applicable, or NONE):</b>		NONE															
<b>Pre/corequisites (if applicable, or NONE):</b>		NONE															
<b>Antirequisite Courses</b> (Cannot be taken for additional credit.) Former course code/number: Cross-listed with: Dual-listed with: Equivalent course(s): (If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)		<b>Special Topics</b> This course is offered with different topics: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Double-click on box to select it as checked.) If yes, different lettered courses may be taken for credit: <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input checked="" type="checkbox"/> Yes, no limit (The specific topic will be recorded when offered.)															
<b>Typical Structure of Instructional Hours</b> <table border="1"> <tr> <td>Lecture/seminar hours</td> <td>45</td> </tr> <tr> <td>Tutorials/workshops</td> <td></td> </tr> <tr> <td>Supervised laboratory hours</td> <td></td> </tr> <tr> <td>Experiential (field experience, practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Supervised online activities</td> <td></td> </tr> <tr> <td>Student directed learning</td> <td></td> </tr> <tr> <td><b>Total hours</b></td> <td><b>45</b></td> </tr> </table>		Lecture/seminar hours	45	Tutorials/workshops		Supervised laboratory hours		Experiential (field experience, practicum, internship, etc.)		Supervised online activities		Student directed learning		<b>Total hours</b>	<b>45</b>	<b>Transfer Credit</b> Transfer credit already exists: (See <a href="#">bctransferguide.ca</a> .) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Submit outline for (re)articulation: <input type="checkbox"/> No <input type="checkbox"/> Yes (If yes, fill in transfer credit form.)	
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<b>Total hours</b>	<b>45</b>																
		<b>Grading System</b> <input checked="" type="checkbox"/> Letter Grades <input type="checkbox"/> Credit/No Credit															
		<b>Expected Frequency of Course Offerings:</b> Every year. (Every semester, Fall only, annually, every other Fall, etc.)															
<b>Department / Program Head or Director:</b> Dr. Cory Beshara		<b>Date approved:</b> May 18, 2018															
<b>Faculty Council approval</b>		<b>Date approved:</b> September 7, 2018															
<b>Dean/Associate VP:</b> Dr. Lucy Lee		<b>Date approved:</b> September 7, 2018															
<b>Campus-Wide Consultation (CWC)</b>		<b>Date of posting:</b> October 19, 2018															
<b>Undergraduate Education Committee (UEC) approval</b>		<b>Date of meeting:</b> October 26, 2018															

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

**Learning Outcomes:**

Upon successful completion of this course, students will be able to:

1. Describe the key areas of content for the topic at hand.
2. Apply background concepts and techniques (from lower level courses) to the area of specialization.
3. Critically evaluate research papers and/or review articles from the area of specialization.
4. Discuss specific relevant topics in an oral presentation and/or written paper.

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods** *(Guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion.)*

Presentation of the course material will be through two 80 minute seminars per week. Students will be encouraged to make use of online materials, relevant software, and scientific literature (usually involving online research journals). Student presentations and weekly meetings will complement or extend material covered by the instructor.

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials** *(If more space is required, download Supplemental Texts and Resource Materials form.)*

Depending on topics to be covered, students may be required to purchase textbooks or specialized monographs. Extensive use will be made of journals, particularly those which contain review articles.

Additional Support Materials:

- Chemical Reviews
- Accounts of Chemical Research
- Chemical and Engineering News
- Other journals and monographs as required.

**Required Additional Supplies and Materials** *(Software, hardware, tools, specialized clothing, etc.)*

Chemicals and glassware for the laboratory component of the course will be supplied.

**Typical Evaluation Methods and Weighting**

Final Report: 10%	Assignments: 10%	Field experience: %	Portfolio: %
Midterm exam(s): 30%	Project: %	Practicum: %	Final Exam: 40%
Quizzes/tests: %	Student Proposal %	Oral Presentations: 10%	Total: 100%

**Details (if necessary):**

Will depend upon the exact nature of the topics taught, but will could include a seminar and/or poster presentation and/or a major term paper, assigned problems, a mid-term examination, and a final examination.

**Typical Course Content and Topics**

Will depend on topics selected.