1. Will this new course affect a current program? If "yes", has a Program Revision Form been submitted concurrently?  
   Yes ☐ No ☑

2. Teaching Department:  
   Chemistry

3. Administering Faculty/Unit:  
   Chemistry

4. Campus  
   (Downtown, Macdonald, Off Campus, Distance Ed, Other – specify)
   Downtown

5. Effective Term of Implementation  
   (Ex. Sept. 2004 = 200409)  
   Term: 200609

6. Responsible Instructor  
   Prof. S. Bohle

7. Course Title (Limit 30 Characters) - required for all courses:  
   Small Molecule Crystallography

8. Course Title to Appear in the Calendar (optional)  
   (Limit 59 characters):  
   Note: This can ONLY be an expansion of word(s) abbreviated in the 30 character course title above.  
   Small Molecule Crystallography

9. Course Title to Appear in the Calendar (optional)  
   (Limit 59 characters):  
   (N.B Faculty of Medicine must append complete course outline)

10. Credit Weight  
    (or CEU's for non-credit CE courses):  
    3

11. Rationale for new course

   Crystallography continues to shape all sciences relating to chemistry, materials, and biochemistry. With modern developments even the once most intractable problems such as organic compounds or macromolecules are readily characterized by readily useful techniques. Although macromolecular crystallography is taught as part of a structural biology course taught jointly by the UdeM and McGill’s biochemistry departments, there is no course devoted to the very different and now standard problems of small molecule crystallography. At this point there is no other place in the curriculum, either undergraduate or graduate, where this subject is presented in even outline form.

12. Course Description  
   (as it will appear in the Calendar [maximum 50 words]):  
   (N.B. Faculty of Medicine must append complete course outline)

   Fundamentals of x-ray diffraction related to small molecule structure resolution, space groups, diffraction theory, strategies for structure solution, and refinement will be covered. Students will undertake practical exercises in data collection and solution for real crystals.

13. Supplementary information to appear in the Calendar in addition to the course description.  
   Such as: equivalent course(s), contact hours, enrolment limitations, language of instruction etc.  
   Please enter the information as it should appear in the calendar notes.
14. Schedule Types(s):  
(Enter all that apply – see course guidelines for a complete list.)  
(i.e. Lecture, Labs, Tutorial)  

<table>
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<th>Hours per Week</th>
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<tr>
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Total Hours per Week: 3

Total Number of Weeks: 13

15. Projected Enrolment:

20

16. Required text and/or preliminary reading list sent to library?

x Yes  ☐ No

17. Prerequisite(s) (Courses or Tests)  
Specify course number(s) or name(s) of test(s):

CHEM 355 Molecular properties and structure 2  
Or permission of the instructor  

If the student does not have a prerequisite should web registration be blocked?  
☐ Yes  ☐ No

If “Yes” complete A and B:

A. Indicate minimum grade or test score(s) the student must attain in prerequisite course(s) or test(s):

B. Can the prerequisite course(s) or test(s) be taken in the same term as this course?  
☐ Yes  ☐ No

18. Corequisite(s) Course Number(s):  
Specify course number(s) and title(s):

Or permission of the instructor  

If the student does not register for the corequisite in the same term should web registration be blocked?  
☐ Yes  ☐ No

19. Restriction(s):

20. Consultation Reports Attached  
☒ Yes  ☐ N/A

21. Additional Course Charges (must be approved by the Fee Policy Committee)  
Description of Fee  
(e.g. screening fee)  
Amount

22. Requires Teaching, Physical, or Financial Resources  
Not Currently Available (attach explanation)  
☐ Yes  ☒ No
### INFORMATION FOR ADMISSIONS, RECRUITMENT & REGISTRAR'S OFFICE

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<th>Slot Course</th>
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#### 23. Approvals:

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<tr>
<th>Routing Sequence</th>
<th>Departmental Meeting</th>
<th>Departmental Chair</th>
<th>Other Faculty</th>
<th>Curric/Academic Committee</th>
<th>Faculty</th>
<th>SCTP</th>
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**Departmental Contact Person**
(name/phone/email)