**New Course Proposal Form**

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:  
   Science

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

5. Effective Term of Implementation  
   (Ex. Sept. 2004 = 200409)  
   Term:  
   200801

6. Responsible Instructor  
   Prof. Ronis

7. Course Title (Limit 30 Characters) - required for all courses:  
   Intro Phys Chem 2

8. Course Number(s)  
   Indicate course number & the number of terms spanned:  
   (tick all that apply)  
   Subject/course number:  
   CHEM 243
   Course(s) Span:  
   ![1 term]  
   ![2 consecutive terms (D1, D2)]  
   ![2 non-consecutive terms (N1, N2)]  
   ![3 consecutive terms (J1, J2, J3)]

9. Course Title to Appear in the Calendar (optional)  
   (Limit 59 characters):  
   Introductory Physical Chemistry 2

10. Credit Weight  
    (or CEU's for non-credit CE courses):  
    2

11. Rationale for new course  
    a) Need to update, consolidate lectures and laboratories in key courses in Physical Chemistry in the Chemistry Core Program  
    b) CHEM laboratory 363F is the first of 2 lab courses in physical chemistry. It is offered in both terms and is taken by Chemistry U2 and U3 students. The lab course component of CHEM 363 has become disconnected from lecture component dealing with thermodynamics and kinetics.  
    c) CHEM 363 tended in the past to be taken simultaneously (U2 and U3 years) with physical chemistry 255, a course which is no longer given.  
    d) CHEM 363FW laboratory workload exceeds credit weighting; credit weighting exceeded because (i) change of lab credit vs. workload conversion Oct 2000; (ii) learning to write and writing of lab reports; (iii) data analysis involving error analysis, sample calculations, etc. (iv) expectations for the course have risen in view of the fact that this course is now undertaken by our most senior students  
    e) CHEM 213 is an introductory physical chemistry course that deals primarily with gas behaviour and chemical thermodynamics; conceptual difficulty of 213 not supported through exposure to relevant laboratory experiments.  
    f) CHEM 273 is a 1 credit course in chemical kinetics that is also offered in the winter term  
    g) courses 213 and 273 share some theoretical concepts that no longer need to be repeated

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

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.  
    Chemistry Honours and Majors must take CHEM 243 and CHEM 263 simultaneously.
14. Schedule Types(s):
(Enter all that apply – see course guidelines for a complete list.)
(i.e. Lecture, Labs, Tutorial)

<table>
<thead>
<tr>
<th>Hours per Week</th>
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<td>Lecture</td>
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Total Hours per Week: 2
Total Number of Weeks: 13

15. Projected Enrolment:

75

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 223 and CHEM 253

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):

If the student does not register for the corequisite in the same term should web registration be blocked?

□ Yes □ No

19. Restriction(s):

Not open to students who have taken or are taking CHEM 203 or CHEM 204.

Permission of instructor

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
### 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>
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Departmental Contact Person (name/phone/email)