



1. Will this course revision affect a current program? If "yes", has a Program Revision Form been submitted concurrently?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. Teaching Department: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">Earth and Planetary Sciences</div>	4. Campus (Downtown, Macdonald, Off Campus, Distance Ed, Other – specify) <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">Downtown</div>	5. Effective Term of Implementation (Ex. Sept. 2004 = 200409) Term: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">200909</div> <input type="checkbox"/> Retirement
3. Administering Faculty/Unit: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">Science</div>		
6. Responsible Instructor: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">Don R. Baker</div>	8. Course Number(s) Indicate course number & the number of terms spanned: (tick all that apply) Subject/course number: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">EPSC 547</div> Course(s) Span: <input checked="" type="checkbox"/> 1 term <input type="checkbox"/> 2 consecutive terms (D1, D2) <input type="checkbox"/> 2 non-consecutive terms (N1, N2) <input type="checkbox"/> 3 consecutive terms (J1, J2, J3)	
7. Credit Weight (or CEU's for non-credit CE courses): <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">3</div> Old Credit Weight or CEU's (if applicable) <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">3</div>		
9. Number Change From: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">N/A</div>	10. Consolidation of Courses: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">N/A</div>	11. Split of Multi-Term Course: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">N/A</div>
12. Course Title (Limit 30 char.) - required for all courses. <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">Modeling Geochemical Processes</div> Old Course Title (if applicable) <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">High-Temperature Geochemistry</div>	13. 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 in Box 12. <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">Modeling Geochemical Processes</div>	
14. Rationale for revised course <div style="border: 1px solid black; padding: 10px; min-height: 100px;"> <p>During the past decade the material covered in this course has evolved from a presentation of thermodynamic constraints on high-temperature geological systems to applying those concepts together with kinetic models to interpret geochemical processes at various temperatures. Thus, the change in name and description of this course better reflects the reality of what is taught and will better inform prospective students who may be interested in taking this course. The chemistry prerequisites for this course (CHEM 203, 204 or 213) have been replaced by a math prerequisite (MATH 222) and a geochemistry course prerequisite (EPSC 220) because they are more appropriate preparation for this course as it is taught now than the chemistry courses.</p> </div>		
15. New Course Description (as it will appear in the Calendar [maximum 50 words]): (N.B. Faculty of Medicine must append complete course outline) <div style="border: 1px solid black; padding: 10px; min-height: 50px;"> <p>Advanced thermodynamics and kinetics will be applied to construct models that quantitatively investigate geochemical processes. Topics include, but are not restricted to: activity-composition relationships in solids, liquids and fluids, crystallization and melting, precipitation and dissolution. rates of geochemical processes. interaction of geological liquids and fluids with rocks and minerals.</p> </div>		
16. Old Course Description (may be found in the Calendar or Banner) <div style="border: 1px solid black; padding: 10px; min-height: 50px;"> <p>(3) (Fall) (2 hours lectures, 3 hours laboratory) (Prerequisites: CHEM 203, CHEM 204 or CHEM 213, or equivalents, or permission of instructor.) The application of thermodynamic principles to igneous and metamorphic petrology and economic geology. Topics include but are not restricted to: solid solutions in minerals, behaviour of geological fluids, phase equilibria, flow processes, estimation of thermodynamic data.</p> </div>		

17. 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.

(3 hours lectures) (Prerequisites: EPSC 220, MATH 222, or permission of instructor)

18. Schedule Types(s):
(Enter all that apply – see course guidelines for a complete list.)

	Hours per Week		Hours per Week		Hours per Week
Lecture	3				
Total Hours per Week:					3
Total Number of Weeks:					

19. Projected Enrolment:

10

20. Revised Prerequisite(s) (Courses or Tests) (in full)
Specify course number(s) or name(s) of test(s):

EPSC 220, MATH 222, or permission of 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

Old prerequisite course number(s)
or test score title(s) (if applicable)

CHEM 203, CHEM 204 or CHEM 213

21. Revised Corequisite(s) Course Number(s) (in full):
Specify course number(s):

None

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

Yes No

Old corequisite(s) course numbers (if applicable):

22. Revised Restriction(s):

None

Old Restriction(s):

None

23. Additional Course Charges (must be approved by the Fee Policy
Committee)

Description of Fee
(e.g. screening fee)

Amount

None

24. Requires Teaching, Physical, or Financial Resources
Not Currently Available (attach explanation)

Yes No

25. Consultation Reports Attached

Yes N/A

INFORMATION FOR ADMISSIONS, RECRUITMENT & REGISTRAR'S OFFICE

To be completed by the Faculty
 Slot Course: Yes No

To be completed by ARR
 CIP Code

For Continuing Education Use
 CE Admin. Unit :
 CE Non-Grant Courses:
 Flat Rate: CdnFlat Rate: Yes N/A

Thesis Component: Yes No

26. Approvals:

Routing Sequence	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP
Name	Don Baker	John Stix	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Signature	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Date	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Departmental Contact Person (name/phone/email)	<input type="text"/>					