

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

6. CURRENT CATALOG DESCRIPTION AS IT APPEARS IN THE CATALOG: including dept., number, title and credits

**CHEM F488 Undergraduate Chemistry and Biochemistry Research**

1-6 Credits

Advanced research topics from outside the usual undergraduate laboratory.

**JUSTIFICATION FOR ACTION REQUESTED**

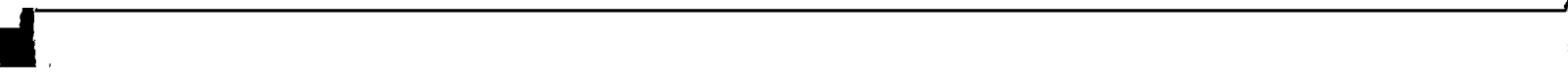
(The department and campus-wide curriculum committee is to scrutinize course change and new course

[REDACTED]

ATTACH COMPLETE SYLLABUS (as part of this application).



Note: The guidelines are online: <http://www.uaf.edu/uafgov/faculty/cd/syllabus.html>  
The department and campus wide curriculum committees will review the syllabus to ensure that each of the items listed  
is included. If items are missing or unclear, the proposed course change will be denied.



**Chem 488 Undergraduate Research**  
2010-2011

Instructor: William Simpson  
Office: 186 Reichardt Bldg  
Contact: 474-7235, [wrsimpson@alaska.edu](mailto:wrsimpson@alaska.edu)

Safety Officer: Emily Reiter  
Office: 194A Reichardt Bldg  
Contact: 474-6748, [e.reiter@alaska.edu](mailto:e.reiter@alaska.edu)

Course description: "Advanced research topics from outside the usual undergraduate laboratory."

**Number of credits.** Credits are assigned at the beginning of the semester when students

enroll, but may be subject to change as the result of consultation between the student and professor. One credit of 488 is reserved generally for library or small computational projects. In general, 2 credits provides an absolute minimum amount of time to accomplish a laboratory project; the usual lab-based project will require about 3 credits per semester. More than 3 credits per semester generally will not be approved. Each credit of 488 corresponds to an average weekly minimum of 3

writing, and reading outside of lab.

**Finding a project.** New 488 students, or those working with a different professor, must

to find out how he or she defines satisfactory progress on, or completion of, a research project. The progress of the grade are described in the table below

Grade component	Points
Progress Presentations (10 pts each, 7 required)	70
Poster	15
Semester Research Paper	40
<b>Total</b>	<b>125</b>

The grading scale is straight letter grades with no +/- . The cutoffs between the A, B, C, D, and F grades are 90%, 80%, 70%, and 60%.

**Attendance.** Establish a regular schedule of attendance in the lab in consultation with your mentor. You may also be asked to attend a regular research discussion with your mentor, and/or group meetings, which are informal research or literature discussion sessions held every so often during the semester. In addition to our class's weekly meetings (described above), regular

**Notebook.** Research-style notebooks must be obtained from the Department of Chemistry  
Keep complete notes of data, procedures, and results

University of Alaska Fairbanks  
Department of Chemistry & Biochemistry

Undergraduate Research, Chemistry 488

Student Name \_\_\_\_\_  
UAF email address \_\_\_\_\_@alaska.edu

Return this page with three or more signatures to Simpson's mailbox in Reichardt 194 no later than the 3<sup>rd</sup> Friday of the semester. Include a half-page description of the proposed

Cathy Cahill ..... Date: \_\_\_\_\_  
Thomas Clausen . Date: \_\_\_\_\_  
Kelly Drew ..... Date: \_\_\_\_\_  
Lawrence Duffy .. Date: \_\_\_\_\_  
Brian Edmonds ... Date: \_\_\_\_\_  
Thomas Green .... Date: \_\_\_\_\_  
..... Date: \_\_\_\_\_

John Keller ..... Date: \_\_\_\_\_  
Thomas Kuhn ..... Date: \_\_\_\_\_  
Brian Rasley ..... Date: \_\_\_\_\_  
Marvin Schulte .... Date: \_\_\_\_\_  
William Simpson ..... Date: \_\_\_\_\_  
Thomas Trainor .. Date: \_\_\_\_\_

I have agreed to serve as research mentor for the above student. A brief description of the proposed research, along with a statement of possible laboratory hazards associated with the project, is attached.

\_\_\_\_\_ Date: \_\_\_\_\_  
Mentor Signature

\_\_\_\_\_ Number of Credit hours \_\_\_\_\_  
Mentor Print name



Write neatly on this, or  
type up your own.

University of Alaska Fairbanks  
Department of Chemistry & Biochemistry  
Undergraduate Research, Chemistry 488

Name \_\_\_\_\_ Semester \_\_\_\_\_

Mentor \_\_\_\_\_

Description of proposed research:

Overview of planned laboratory procedures and materials, including descriptions of

488 LABORATORY CHECK-OUT LIST

Name \_\_\_\_\_

Advisor \_\_\_\_\_  
\_\_\_\_\_

Lab Space(s) Used

Check out performed by \_\_\_\_\_ on \_\_\_/\_\_\_/\_\_\_

Approved by PI? \_\_\_\_\_ on \_\_\_/\_\_\_/\_\_\_

	Checked
Desk/office area cleared: books, files, personal materials <small>Comments:</small>	
Turned in your lab notebook/copies of data/data files	
Benchtop/work area cleared <small>Comments:</small>	
Chemicals or solutions remaining—clearly labeled <small>Comments:</small>	
Samples or items in refrigerator or freezer in lab and/or in department <small>Comments:</small>	
Waste bottles remaining <small>Comments:</small>	
Dishes cleaned and returned. <small>Comments:</small>	
Fume hoods empty and clean <small>Comments:</small>	
Equipment borrowed from stockroom or other labs? Returned? <small>Comments:</small>	
Chemicals borrowed or used up from stockroom or other labs? <small>Comments:</small>	
Gas cylinders returned stockroom?	