

## **Biochemistry Colloquium**

### **Chem 688**

**Primary Instructor:** Kelly Drew, 474-7190, [kdrew@alaska.edu](mailto:kdrew@alaska.edu)  
Department of Chemistry and Biochemistry  
Murie 218

**Office Hours:** please contact instructor via email or phone

**Meeting Time:** Wednesday, 11:45 pm – 12:45 pm, Murie 2

Develop a working model, generate hypotheses from the model and design experiments to test these hypotheses.

Prepare a research proposal and know how to communicate the significance, innovation, approach and feasibility of the proposed work.

Prepare an NIH biosketch and develop a vision for growing your biosketch

Discuss rigor and reproducibility of published research and of proposed research.

### **Instructional Methods:**

The course is composed of group discussions (approx. 50%), and individual writing assignments. Group discussions are graded from attendance and participation. Participation includes voicing opinions and making revisions in response to group feedback. Writing assignments (approx 50%) are graded on a nominal scale of 0 or 1. The score is 1 if the writing assignment is available as scheduled for discussion and 0 if it is not available for discussion. This course is writing intensive and culminates in a research proposal.

### **Grading:**

Students will be evaluated on the basis of their *participation*. Grades are A (90-100%), B (80-90%), C (70-80%), D (60-70%), F (<60%)

### **Course Policies:**

*Attendance:* Graduate student attendance is expected. Undergraduate student attendance is highly encouraged. Active student participation is expected.

*Presentations:* Students will receive adequate preparation time for all assignments. Content and organization of topics are the primary concern, however presentation and discussion are also important for optimal outcomes.

### **Ethical Considerations:**

The Chemistry Department's policy of cheating is as follows:  
*assigned a course grade of*

### **Plagiarism Policy:**

Plagiarism is defined as the use of "other" intellectual property without proper reference to the original author. Intellectual property includes all electronic, spoken or print media *thus any information taken of the web is included under this statement*. Students are expected to cite all sources used in oral and written presentations. Cases of plagiarism will be taken seriously with a grade 0 for the particular assignment. Severe cases may be referred to the Department Chair or Dean or class failing considered.

### **Services Support, Disabilities:**

Support services will be provided by the University of Alaska Library system, online resources and the instructor. Additional services are available through Student Support Services (<http://www.uaf.edu/sssp/>) at UAF. We will work with the Office of Disabilities Services (203 WHIT, 474-7043) to provide accommodations for students with disabilities.

### **Course materials**

Grant writing book (posted on Blackboard)

The NIH biosketch and research proposals

<https://grants.nih.gov/grants/forms/biosketch.htm>

Also see,

<https://nexus.od.nih.gov/all/2016/01/28/scientific-premise-in-nih-grant-applications/>

<https://grants.nih.gov/reproducibility/index.htm>

<https://grants.nih.gov/grants/how-to-apply-application-guide/format-and-write/write-your-application.htm>

<https://grants.nih.gov/grants/how-to-apply-application-guide/forms-d/research-forms-d.pdf>

<https://www.niaid.nih.gov/grants-contracts/write-research-plan>

University of Alaska Fairbanks, Good Laboratory Practice (GLP) Stage 1 – GLP

<https://www.citiprogram.org/>