

Lecture	Topic	Reading
Week 1 (Aug. 31)	Introduction/Overview. Introduction to the chemical literature. Proposal assignment presented to class. First writing assignment	
Week 2 (Sept. 7)	No Class	
Week 3 (Sept. 14)	Lecture on grants and grant writing and guidelines for assigned proposal. Writing assignment from Week 1 is due.	Recommended reading to assist in grant writing: 1. Friedland & Folt 2. New & Quick
Week 4 (Sept. 21)	Discuss student writing assignment... critical assessment. 2 nd writing assignment Each student selects a paper to discuss in class on Week 6, and provides reference information to the class. By Friday (09/25/2015), students submit topics that they will present in Week 7.	Assigned paper
Week 5 (Sept. 28)	Responsible conduct in research: lecture and in class discussion. Critical reading of scientific papers. Papers presented to class by instructor, followed by discussion lead by instructor. Challenge/problem is assigned	Recommended reading: "On Being a Scientist", 3rd ed. http://www.nap.edu/catalog/12192/on-being-a-scientist-a-guide-to-responsible-conduct-in
Week 6 (Oct. 5)	Discuss papers selected by students, with each student providing short introduction. 2 nd writing assignment due Students submit preliminary proposal (1 page) describing research project for approval	
Week 7 (Oct. 13) Tuesday	Student presentations, followed by in class discussion and critique of the paper and presentation Student submit solutions to challenge/problem Students turn in proposal outline – based on R21 proposal structure.	Approved papers
Week 8 (Oct. 19)	Class discussion of assigned papers. Discuss 2 nd writing assignments are due Students submit topics that they will present in Week 11.	Papers to be assigned
Week 9 (Oct. 26)	Students present solutions to Challenge/Problem #1. Discuss solutions. Grant proposals are to be submitted at the beginning of class.	
Week 10 (Nov. 2)	Class to evaluate and discuss student proposals. (score the proposals). Each student selects a paper to discuss in class on Week 12, and provides reference information to the class.	
Week 11 (Nov. 9)	Students present on selected topic, followed by class discussion and critique of the presentation.	Approved papers
Week 12 (Nov. 16)	Discuss papers selected by students, with each student providing short introduction.	
Week 13 (Nov. 23)	Assignment: TBD Revised Grant proposals are to be submitted at the beginning of class.	
Week 14 (Nov. 30)	TBD	
Week 15 (Dec. 7)	Class to evaluate and discuss student proposals. (score the proposals).	
Week 16 (Dec 14)	Final Exam	