

Appendix B. BY463 as an example of a seminar-style majors' elective.

Course goals: Through discussion and writing, students will demonstrate increased facility with and confidence in ...

1. Reading and understanding primary research literature
2. Critiquing primary research literature
3. Writing concise, summative critiques of primary research literature

Through researching and writing a mock grant proposal, students will ...

1. Identify a contemporary research question of importance to a specific Principal Investigator (PI)
2. Propose and justify experiments to address this research question
3. Critique other students' ideas in conversation and in writing

Daily schedule:

Day	Topic	Assignments due	PI to read
1	Welcome		
2	Bacterial cytoskeleton		Errington
3		Grant Proposal Stage 1	
4	Replication in <i>E. coli</i>		Beckwith
5		Grant Proposal Stage 2	
6	Starvation physiology	Critique (Errington or Beckwith)	Finkel
7			
8	Stress response		Gross
9			
10	Quorum sensing	Grant Proposal Stage 3	Bassler
11	Metagenomics	Critique (Finkel, Gross or Bassler)	Handelsman
12			
13	Comparative genomics		Fraser
14			
15	Pathogenesis	Grant Proposal Stage 4	Cossart
16		Critique (Handelsman, Fraser or Cossart)	
17	Grants workshop	Grant Proposal Stage 5	
18	Grant Proposal	Course evals; Grant Proposal	