

BIOEN 402: Bioengineering Capstone Design Project Spring 2016

Instructors

Your research advisor, <i>and...</i>		
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Web site: <http://courses.washington.edu/bioen402>

Class Meetings

BIOEN 402 meets Mondays 4:30-5:20 in Foege N130 seminar room. On the days checked below, we meet as a whole class to discuss general report issues or hear research progress reports. On days that are not checked, the class period is available for discussing individual projects. Any future schedule changes will be announced by email and posted here. Of course, you are always welcome to make an appointment or contact one of us by email if you have questions about your project.

Topics by week

Meet?	Date	Topic (assumes completion of project in Spring 2016)
✓	Mar 28	Capstone quiz
	Apr 4	One-on-one consultation 4:00 – 5:15
	Apr 11	One-on-one consultation 4:00 – 5:15
✓	Apr 18	Designing Effective Figures Workshop <i>Bring a figure from your Capstone report (may be in draft form).</i> Extended class time: 4:30 - 6:00 p.m.
✓	April 25	Lecture (Neils): Life-long learning & related topics
✓	May 2	BIOE BS Program review, with guest Karen Friesem (CTL)
✓	May 9	Student presentations: Practice for BIOE Capstone Design Symposium Extended class time: 3:30-5:30 p.m.
✓	May 16	
Monday May 23		Bioengineering Capstone Design Symposium 3:30 – 6:20 p.m. Foege Building
TBA		<i>Example capstone presentations to BIOEN 401 class</i>
Fri. May 27		Last day to submit report to instructors for comment
	May 30	<i>No Class – Memorial Day</i>
Fri. June 3		Final report due to your advisor and capstone instructors

Grading

Grades in BIOEN 402 are determined by your research advisor, based on his or her perception of your efforts and progress. The assignments below are intended to give you greater facility with the background and presentation of your project, thereby helping you impress your advisor when you meet. If you ever find that you are not benefitting from one of the assignments, you may modify it in a way that makes it a productive learning experience for you.

None of the activities in the class meetings is *currently* graded, but attendance will be taken in case anyone asks. Other aspects of course grading will be discussed later in the quarter.

Assignments:

1. Capstone symposium: We expect all seniors to participate in this departmental event, where the class of 2016 will showcase their engineering design projects! Industry guests, students, UW colleagues, and clinical collaborators will be in attendance.
2. In BIOEN 401 you wrote a project proposal that included a review of the current technology. This technology has probably changed a little in the past six months, and it is good to know what these changes are. Please review your proposal and write a brief statement of **progress in your field** in the past two quarters. Sources will include your own reading, conversations with members of your research lab, and citation searches on the articles that you have cited previously in your proposal. Please submit an electronic copy (link will be provided) to the instructors for possible inclusion in the course grade, and bring a copy to class to share.
3. Upon completion of some period of data collection, please write a **critical review of your own experiment** and submit it to the faculty advisor as an attachment to one of your progress reports, with a copy to the BIOEN 402 instructor.
4. You have learned a great deal over the past 3-4 years, and we do not want it to slip away. To help retention, we will have a brief **capstone quiz** covering material from your entire bioengineering curriculum. Please submit two questions about material that you have learned in your UW coursework and that you are using in your capstone project. They can be multiple choice, short answer, etc... anything that can be finished in one minute or less. The questions will be compiled into an exam that we will take – for fun – toward the end of the quarter.