

Spring 2-1-2019

# BIOB 547.01A: Experimental Molecular, Cellular, and Chemical Biology

Brent J. Ryckman

University of Montana - Missoula, [brent.ryckman@mso.umt.edu](mailto:brent.ryckman@mso.umt.edu)

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# Syllabus

## BIOB/BCH 547: EXPERIMENTAL MOLECULAR, CELLULAR & CHEMICAL BIOLOGY

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### COURSE INFORMATION:

- CRN: BCH 547 (32323); BIOB 547(32258)
- Credits: 1 (C/NC)
- Term: Spring 2019
- Day/Time: Mondays 12PM
- Location: Sakggs 169

### INSTRUCTOR CONTACT INFORMATION:

- **Brent Ryckman**
- Department: Biological Sciences
- Office: Interdisciplinary Science Building (ISB) 215
- Phone (Lab): 406-243-6948
- Email (preferred): brent.ryckman@mso.umt.edu
- Office hours: by appointment.

### LEARNING OUTCOMES:

Students will:

- Expand their knowledge of current cellular, molecular and microbial biology research.
- Develop skills of critical analysis through writing summaries of attended seminars.
- Develop critical thinking skills through active participation and asking questions of seminar speakers.
- Extend their network of scientific contacts
- Use oral presentation format to explain their research to broad audiences.

### COURSE REQUIREMENTS:

1. Attend all course meetings. A sign-in sheet will be used to verify attendance. Absences will be excused on a case by case basis. For updates on seminar schedule refer to the MBS Events page ([https://docs.google.com/spreadsheets/d/1O9DnwX5pHSGW4\\_P1AQJQhSd0mqCYB9vvqI\\_QdmbPI-Y/edit#gid=0](https://docs.google.com/spreadsheets/d/1O9DnwX5pHSGW4_P1AQJQhSd0mqCYB9vvqI_QdmbPI-Y/edit#gid=0)).
2. Formal presentation of research progress once during the year. This will involve giving a 20-40 minute presentation on your own experimental work (leaving 5-10 minutes for questions). Your talk should include the following: 1) background information needed to understand the topic, 2) motivation for doing the experiments (i.e. describe the "hole" in our understanding that you are trying to fill and why it is important), 3) explain the experiments and results, and 4) summarize conclusions, interpretations and future directions. First-year students and/or students who do not yet have an experimental research project may choose to present a published research paper related to their current lab's research. Alternatively, they could present their undergraduate research if relevant. This would follow the same format.
3. Serve as "discussant" once during the series. The Discussant will introduce the speaker, giving an idea of their educational background, which lab they work in and for how long, and the title of their talk. Discussant will begin and moderate the post-presentation question and answer session.
4. Participate in post-presentation discussions by 1) asking question, and 2) completing speaker evaluation forms evaluation.

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