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Spring 2-1-2019

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

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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](mailto: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.

## **Disability Services**

The University of Montana assures equal access to instruction by supporting collaboration between students with disabilities, instructors, and Disability Services for Students. If you have a disability that requires an accommodation, contact either of us at the beginning of the semester so that proper accommodations can be provided. Please contact Disability Services for Students if you have questions, or call Disability Services for Students (DSS) for voice/text at 406.243.2243. You may also fax the Lommasson Center 154 for more information at 406.243.5330.