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Fall 9-1-2020

### BCH 547.01: 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 (71851); BIOB 547(71806)
- Credits: 1 (C/NC)
- Term: Fall 2020
- Day/Time: Fridays 11AM
- Location: Zoom:
  - <https://umontana.zoom.us/j/99917833903?pwd=bDZjazVxcGZsWGI5UERWQldGMHp6dz09>
- Semester Schedule/Sign-up
  - ([https://docs.google.com/spreadsheets/d/1O9DnwX5pHSGW4\\_P1AQJQhSd0mqCYB9vvgI\\_QdmbPI-Y/edit#gid=0](https://docs.google.com/spreadsheets/d/1O9DnwX5pHSGW4_P1AQJQhSd0mqCYB9vvgI_QdmbPI-Y/edit#gid=0)).

### 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. Note that due to the ongoing COVID situation, MBS Graduate Student seminar/data-club (Mondays 12noon) and MBS Professional Seminar (Fridays 11am) have been condensed to a single series at 11am on Fridays.
2. Attend (via Zoom) all seminar meetings. Absences will be excused on a case by case basis.
3. Formal documentation of seminar attendance/viewing is required as in past semesters. Please tailor the documentation to the specific type of seminar.
  - a. "Professional Seminar" (e.g., outside speakers)
    - i. Option 1. Written summary including:
      1. The name of the speaker
      2. Title of seminar
      3. Date and location of seminar
      4. 200-300 word summary of the seminar
      5. One question from the audience and the answer given.
      6. Encouraged: question asked by YOU and the answer given.
    - ii. Option 2. Fill out the questionnaire form provided on the Moodle shell.
  - b. Graduate Student Data-club/Seminar
    - i. Complete the Presentation Evaluation Form
    - ii. Note that you do not need to "sign" your evaluation form for credit since I can see who has submitted via Moodle.

4. **All documentations should uploaded to the Moodle shell within one week of the seminar.** This is especially important for the peer evaluation of grad student data club presentation so that the instructor can get feedback to the presenters in a timely manner
5. 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.
6. 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.
7. Participate in post-presentation discussions by 1) asking question, and 2) completing speaker evaluation forms evaluation.

## **Disability Services**

If you are a student with a disability and wish to request reasonable accommodations for this course, contact me privately to discuss the specific modifications. Please be advised, I may request that you provide a verification letter from Disability Services for Students. If you have not yet registered with Disability Services, located in Lommasson Center 154, please do so in order to coordinate your reasonable modifications. For more information, visit the Disability Services website at [www.umt.edu/disability](http://www.umt.edu/disability).

## **UM CULTURAL LEAVE POLICY**

Cultural or ceremonial leave allows excused absences for cultural, religious, and ceremonial purposes to meet the student's customs and traditions or to participate in related activities. To receive an authorized absence for a cultural, religious or ceremonial event the student or their advisor (proxy) must submit a formal written request to the instructor. This must include a brief description (with inclusive dates) of the cultural event or ceremony and the importance of the student's attendance or participation. Authorization for the absence is subject to approval by the instructor. Appeals may be made to the Chair, Dean or Provost. The excused absence or leave may not exceed five academic calendar days (not including weekends or holidays). Students remain responsible for completion or make-up of assignments as defined in the syllabus, at the discretion of the instructor.