

2021 Spring Molecular Biology Courses

Class No.	Course No.	Title	Instructor	Day, Time, Room	Cr. Hrs.	Semester
10645	MBIOL 6200	Critical Thinking in Research	Nels Elde	T, TH 3:00PM – 5:00PM HSEB TBA	2.0	First Half

In order to teach the skills required to be a successful independent scientist this course will teach students critical thinking strategies for successful research. This will include how to digest and analyze papers and problem solve, both of which will review and apply material from core courses. The instructors will develop specific course content. Topics may include: How to read a paper (read at home, discuss in class); Survey of the core services; Problem solving with open-ended problems posed on real-life or made-up situations. A focused effort will be made to help students identify topics that they can develop into grants in the Spring term. Grading will be based on participation and individual work.

10646	MBIOL 6300	Guided Proposal Preparation	Clement Chow Tim Formosa	T, TH 3:00PM – 5:00PM HSEB TBA	2.0	Second Half
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To prepare students for their thesis research, prelims, and qualifying exams, we will offer a guided proposal preparation course in the second half of the Spring semester that builds on their experience earlier in the semester (critical thinking in research, reading of primary literature and problem solving). The guided proposal writing course will provide an opportunity for students to create an original research proposal by critical review of other grants, training in hypothesis generation, scientific writing, and experimental design. The written original grant proposal will be used as a basis for an oral qualifying examination by a faculty committee.

7811	MBIOL 7960	Research Lab Rotation	-	Monday, January 11th - Friday, March 5th	3.0	-
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Laboratory rotations for students in the Graduate Program in Molecular Biology. A signed Rotation Verification Form and an e-mailed copy of the rotation report must be submitted to the Program Office in order to receive a credit.

Choose 2 electives (see elective list)

Students must be registered full time for between 9-12 graduate credit hours. Electives vary by year and semester and many are taught every other year.