

# MOLB-MOLECULAR BIOLOGY

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## **MOLB 448. Special Research Problems**

### **1-3 Credits**

Individual investigation, theoretical or experimental, under the supervision of a molecular biology faculty member. May be repeated for a maximum of 6 credits.

**Prerequisite:** consent of instructor.

## **MOLB 520. Molecular Cell Biology**

### **3 Credits (3)**

Same as BIOL 520.

## **MOLB 542. Biochemistry I**

### **3 Credits (3)**

Same as BCHE 542. B or better required.

## **MOLB 545. Molecular and Biochemical Genetics**

### **3 Credits (3)**

Same as BCHE 545 and BIOL 545.

## **MOLB 546. Biochemistry II**

### **3 Credits (3)**

Same as BCHE 546.

## **MOLB 550. Topics in Molecular Biology**

### **1-3 Credits**

Selected topics of current interest in field of molecular biology for master's level students. May be repeated up to 12 credits.

### **Learning Outcomes**

1. Learning goals are dependent upon topic and instructor.

## **MOLB 590. Discussions in Molecular Biology**

### **1 Credit (1)**

Oral presentations of ongoing research and/or research proposal for the masters thesis. Must be repeated twice for masters and a minimum of three times for doctoral students. May be repeated up to 4 credits.

### **Learning Outcomes**

1. To expose students to the fundamentals of speaking, including organization, and listening.
2. To understand and gain practice oral presentations.
3. Encourage critical thinking and discussion of scientific material during presentations.

## **MOLB 597. Laboratory Rotations/Research Discussions**

### **1-3 Credits**

All entering students are required to take at least one credit, during their first semester, in which they will circulate through at least three different labs working on assigned problems and discussing research programs. May be repeated for a maximum of 4 credits. Graded S/U.

## **MOLB 598. Special Research Programs**

### **1-3 Credits**

Individual investigation, experimental or theoretical, under the supervision of a molecular biology faculty member. Course may be repeated up to a total of 6 credits with committee approval.

## **MOLB 599. Master's Thesis**

### **1-15 Credits (1-15)**

Experimental and scholarly research leading to the preparation of a master's thesis.

## **MOLB 600. Molecular Biology Research**

### **1-15 Credits**

Laboratory research efforts prior to successful completion of doctoral comprehensive exam.

## **MOLB 650. Advanced Topics in Molecular Biology**

### **1-3 Credits**

Discussions and lectures on topics of current interest in molecular biology for doctoral students.

## **MOLB 698. Advanced Research Projects**

### **1-9 Credits**

Individualized special research assignments for doctoral-level students. Up to 9 credits, with approval of committee. Graded S/U.

## **MOLB 700. Doctoral Dissertation Research**

### **1-15 Credits**

Research for doctoral students after completing comprehensive exams.