

## **B.S. in Biology – Cell & Molecular Biology Graduate Program Advising Track**

The Cell & Molecular Biology Graduate Program track is a guide for students who wish to pursue a PhD with a focus on cell and/or molecular biology. There is quite a bit of flexibility in biological sciences electives in order that you might enroll in courses that match your interests and goals. It is your responsibility to research the course requirements of your intended graduate program and make sure that these courses are taken in a timely manner. *Italicized courses are required for most graduate programs.*

### **Biology Core (25 hours)**

*BISC 130, 131, 132, 133 – Biological Principles & Diversity (8)*

*BISC 260 – Microbiology (4)*

*BISC 310 – Genetics (3)*

BISC 313 – Ecology (3)

*BISC 315 – Cell Biology (3)*

BISC 320 – Animal Physiology (3)

BISC 480 – Undergraduate Seminar (1)

### **Biology Electives (19 hours)**

*BISC 422 – Molecular Biology (3)*

16 additional hours of BISC courses available for majors' credit of which at least 7 must be at the 300/400 level. You and your advisor will discuss the courses that will be most beneficial to your career goals.

### **Science Electives (19 hours)**

The following Chemistry courses are recommended and may be required by many graduate programs so make sure you check the specific requirements of programs to which you plan to apply in order to ensure you will meet their requirements:

*CHEM 250, 251, 252, 253, 254 – Organic Chemistry (8)*

*CHEM 351, 352, 353, 354 – Biochemistry (8)*

You may choose additional hours of any BISC course available for majors' credit and any courses listed on the Approved Science Electives sheet. You and your advisor will discuss the courses that will be most beneficial to your career goals.

You are also strongly encouraged to gain research experience under the mentorship of a faculty member for which you may be able to receive Biology elective credit by enrolling in BISC 360; consult your advisor about this.