

# BIO 415 : Cell and Molecular Biology

This capstone course requires students to draw upon their methodological, analytical and communication skills as well as their learned knowledge. These skills will be demonstrated through laboratory activities and written lab reports, oral presentations, scientifically prepared papers and critiques of peer reviewed articles. This course investigates the molecular mechanisms of gene regulation, cancer progression, cell signaling and cytoskeletal interactions. Students conduct research in laboratories using analytical procedures that reinforce the protocols discussed in the classroom. Students must enroll in the lab.

**Credits** 4

**Prerequisites**

BIO 101/101L, BIO 102/102L, BIO 359, CHM 111, and CHM 112 and 90 or more completed credit hours.

**Corequisites**

BIO 415L (laboratory)