

# Cell & Molecular Biochemistry Courses

---

## Courses

### **CBCH 3316. Membrane Biology.**

Membrane architecture, Singer-Nicholson model and the dynamic aspects of membrane assembly. Transport vesicles and lipid-based membrane signaling. Prerequisites: CHEM 2325 and BIOL 3414.

**Department:** Cell & Molecular Biochemistry

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (BIOL 3414 w/C or better ) OR (BIOL 3115 w/C or better AND BIOL 3314 w/C or better ) AND (CHEM 2325 w/C or better)

### **CBCH 4310. Techniques in Mol Biochem.**

An overview of research methods and techniques (team-taught). Prerequisites: CHEM 4330, CBCH 3414 or instructor approval.

**Department:** Cell & Molecular Biochemistry

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (CHEM 4330 w/C or better ) OR (CHEM 3330 w/C or better ) AND (BIOL 3414 w/C or better ) OR (BIOL 3115 w/C or better AND BIOL 3314 w/C or better)

### **CBCH 4320. Adv Topics in Mol Biochem.**

A team-taught seminar class on recent topics in biochemistry and molecular biology. Prerequisites: CHEM 4330 and CBCH 3414 or instructor approval.

**Department:** Cell & Molecular Biochemistry

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (BIOL 3414 w/C or better ) OR (BIOL 3115 w/C or better AND BIOL 3314 w/C or better ) AND (CHEM 4330 w/C or better ) OR (CHEM 3330 w/C or better)

### **CBCH 4414. Cellular Biochemistry.**

Cellular aspects of biochemical pathways, protein sorting and transport, post-translational modifications of proteins, subcellular structures, cytoskeleton and cell lipid trafficking, synthesis of glycoproteins, receptors and cell signaling, apoptosis and cancer. Prerequisites: BIOL 3314/3115 AND CHEM 3330 AND CBCH 4310.

**Department:** Cell & Molecular Biochemistry

**4 Credit Hours**

**4 Total Contact Hours**

4 Lab Hours

0 Lecture Hours

0 Other Hours

**Prerequisite(s):** (BIOL 3414 w/C or better ) OR (BIOL 3115 w/C or better AND BIOL 3314 w/C or better ) AND (CHEM 3330 w/C or better ) OR (CHEM 4330 w/C or better ) AND (CBCH 4310 w/C or better)