

SEQUENCE OF CHEM COURSES FOR BIOLOGY MAJORS

- The flowchart below shows suggested paths and each major. The arrows indicate *prerequisites* (course that must be completed *before* the course pointed to). Note a grade of **C or better is required in prerequisite courses for CHEM courses.**
- **General biology majors** must complete two semesters of general chemistry (CHEM 115/215) and one semester course in organic chemistry (CHEM 130). Students may take one semester of biochemistry (CHEM 349) for the cell biology requirement.
- **Pre-health majors** (i.e., students intending to apply to medical, pharmacy, dental programs) should generally follow the cell and molecular biology path. Although *specific requirements depend on the program(s) you're applying to*, most require a year of general chemistry and lab (CHEM 115, 215/216), a year of organic chemistry and labs (CHEM 333-336), and general biochemistry or biochemistry (CHEM 349 or 340).
- **Cell and molecular biology majors** must complete a year of general chemistry and lab (CHEM 115, 215/216), a year of organic chemistry (CHEM 333 and 335), and a year of biochemistry (CHEM 340 and 341).
- **Clinical Science majors** must complete a year of general chemistry and lab (CHEM 115, 215/216), a one semester course in organic chemistry (CHEM 130), and several other chemistry courses (CHEM 320, 334, 343, 349)
- **Physiology majors** must complete a year of general chemistry and lab (CHEM 115, 215/216), a one semester course in organic chemistry (CHEM 130) and one semester of biochemistry (CHEM 349 or 340).
- **Microbiology majors** must complete a year of general chemistry and lab (CHEM 115, 215/216), a year of organic chemistry (CHEM 333 and 335), and one semester of biochemistry (CHEM 349 or 340).
- **Botany, Ecology, Marine Biology, and Zoology majors** must complete one semester of general chemistry (CHEM 115) and a one semester course in organic chemistry (CHEM 130). They may take one additional semester (CHEM 215/216)

