

B.S. Biochemistry Degree - Suggested Course Sequence for Freshmen who will take CHM 1211 Winter quarter				
Year	Autumn	Winter	Spring	†Summer
Freshman	CHM 1000 (2 cr) *BIO 2101 (5 cr) (Ask PPHS Director to add you to events mailing list)	CHM 1211 WKFS, CHM 1211L (5 cr) MAT 1234 WKQR (5 cr) (PPHS 1200 if desired)	CHM 1212, CHM 1212L (5 cr) MAT 1235 (5 cr) CHM 2960 (1 cr)	Consider doing research/internship during summers (on-campus or REU) to prepare for graduate school.
Sophomore	CHM 3371, CHM 3371L (5 cr) PHY 1121 or 1101 (5 cr)	CHM 3372, CHM 3372L (5 cr) PHY 1122 or 1102 (5 cr)	**CHM 1213 (3 cr) CHM 3373, CHM 3373L (5 cr)	
Junior	CHM 4361, CHM 4361L (5 cr) ‡CHM 3225, CHM 3225L (5 cr) (PPHS 3400)	CHM 4362, CHM 4362L (5 cr) CHM & BIO elective (7 cr tot needed)	CHM 4363 (3 cr) CHM 3422 (4 cr)	‡PPHS students should consider shadowing and volunteering in professional health field.
Senior	‡BIO 3325 (5 cr)	CHM 4898 (3 cr) BIO 4325 (5 cr)		

General Chemistry, Organic Chemistry, Analytical Chemistry, Physical Chemistry, Biochemistry

*Take the Math Placement Exam before Fall freshman year. Take the calculus placement exam, too. If Pre-Calculus MAT 1110 is indicated by the placement, stay on sequence in your math journey

**CHM 1213 can be taken in later years because it is not a pre-req for any other class that is required for the B.S. Biochem degree.

†Majors should do CHM 4960 Undergraduate Research during the academic year and/or do research during Summer.

‡The quarters you take CHM 3225 and BIO 3325 may be switched.

‡The details shown below apply only to biochem majors who are also in the PPHS program. Also, remember that PPHS is a program, not a major. If you're intending to major in biochemistry and do

1. **Take math as early as possible**, finish the 5-credit MAT courses in the first year or soon after. Historically, Genetics profs accepted students with calculus experience instead of MAT 2360; ask
2. Because rule #1 makes the first year crowded, you may need to make room. If so, **you may postpone BIO 2103** (there is room to take it in later spring quarters).
3. For a number of reasons, the 2-credit lab **CHM 2213 is not required for biochemists**. Of course, the 3-credit lecture CHM 1213 is, but it can be postponed.
4. For pre-meds, we recommend more bio beyond the BIO 210X series in the form of A&P specifically. **There is a 5-credit Fall course, BIO 4410**, that is recommended (the alternative is 2 5-credit
5. For PPHS biochemistry majors, BIO 2102 can be take Spring Sophomore year while BIO 2103 can be taken even later (Spring Junior year). The main thing to remember is that you have a few
6. In general, PPHS requires a year of bio, a year of general chem (no CHM 2213 is OK!), a year of organic, some biochem, and a few more bio courses.