

*One of the following combinations: (4)*

- CHM 130 Physical Chemistry I (3)
- CHM 132 Physical Chemistry Laboratory I (1)

OR

- CHM 135 Introductory Physical Chemistry (3)
- CHM 132 or 133 Physical Chemistry Laboratory I or II (1)

*Two of the following three: (8)*

- CHM 131 Physical Chemistry II (3) **and** CHM 133 Physical Chemistry Laboratory II (1)
- BIO 102 Physiology (4)
- BIO 114 Genetics (4)

Those interested in graduate school in biochemistry should choose CHM 130 and 131 and take additional courses in advanced biochemistry, molecular biology, inorganic and organic chemistry.

### D. Chemical Physics Track (Program D)

**Required Lower-Division Courses: 39 units**

- CHM 005, 006 General Chemistry I, II (4,4)
- PHY 021, 023 General Physics I, II (4,4)
- PHY 022, 024 General Physics Laboratory I, II (1,1)
- PHY 025 Modern Physics (4)
- PHY 026 Modern Physics Laboratory (1)
- PHY 040 Differential Equations (4)
- MA 009, 010 Elementary Calculus I, II (4,4)
- MA 019 Multivariable Calculus (4)

**Required Upper-Division Courses: ~~28-29~~<sup>27-27</sup> units**

- CHM 101 Organic Chemistry I (4)
- CHM 130, 131 Physical Chemistry I, II (3,3)
- CHM 132, 133 Physical Chemistry Laboratory I, II (1,1)
- CHM 195 Seminar ~~(2)~~ (1)
- CHM 198 Chemistry Research (2)
- \*CHM Electives (4)
- \*PHY Electives (8 or 9)
- PHY 142/143 Circuits & Electronics with lab (4,1) recommended
- \*Department Chair approval required.

**Recommended Course**

- MA 140 Complex Analysis (4)