Chemical and Physical Biology

Basic Requirements (16 Half-courses) and Requirements for Honors Eligibility (16 Half-courses)

Note: This worksheet was created using information in the Handbook for Students and should be used for planning purposes only.

Life Sciences: LS1a (or LPSA) and LS1b _____

MCB 60 _____

One additional intermediate course (MCB 63, 64, 65* or 68) _____

General or Inorganic Chemistry - 1 half course chosen from:
Phys Sci 1, 10 or 11 OR Chem 40 or 160 (or suitable equivalent) _____

Organic Chemistry - 2 half courses chosen from:
Chem 20 and Chem 30 OR Chem 17 and Chem 27 _____

Physical Chemistry - 1 half course chosen from:
Chem 60 or 161 OR MCB 65* or 199 (or suitable equivalent) _____

Mathematics: Math 19a and 19b OR 21a and 21b
OR Applied Math 21a and 21b _____

Physics: One half-course in mechanics (chosen from Physics 16, 15a, 11a (no longer offered); Physical Sciences 2** or 12a; or Applied Physics 50a), and one half-course in electricity and magnetism (chosen from Physics 15b, 11b (no longer offered); Physical Sciences 3** or 12b; or Applied Physics 50b). _____

3 advanced courses (2 if writing an honors thesis)- Any 100-level Chemistry, Molecular and Cellular Biology, Applied Math or Physics course will meet this requirement. The courses listed here also count for concentration credit. _____

Research: Students who do not write a thesis based on laboratory research must take one project lab course (such as LS 100r, Chem 100r, 135 or 165 or OEB 100r) or enroll in one term of CPB 91r (supervised research).

Thesis (required for honors eligibility): Students intending to write a thesis should enroll in Chemical and Physical Biology 99 (laboratory research for honors thesis) in their last year at the College. CPB 99 is a full year, letter-graded course. Students intending to write a thesis should be working in a research laboratory by their junior year and plan to spend the summer between the junior and senior years working in their thesis project.

Tutorial: Required of all concentrators in sophomore and junior years unless engaged in thesis research. Tutorial sessions are non-credit (and therefore do not appear on the study card or transcript), take place approximately twice per month, and typically consist of readings selected from the primary literature or relevant texts.

Advising notes: Advising notes for CPB concentrators are posted here.

* MCB 65 can be used to fulfill either the intermediate course requirement or the physical chemistry requirement, but not both.

** Students who do not take at least one course at the level of Physics 15 or 16 or Physical Science 12 must take a computational course as one of the upper level courses chosen from CS 50 or 109; Applied Math 111, 115 or 126; MCB 111, 112, 131, or 199; or other computational class approved by the Head Tutor.