

**Department of Chemistry and
Biochemistry (May 2018)**

Chemistry Major CC

(14.50)

First Year

CH107, CH108
MA126, MA129

Second and Third Year

PC241, PC242
CH250: Organic I
CH241: Analytical
CH275: Inorganic I
CH366: Physical I or CH365 Biophysical
CH382 (requires CH251): Biochemistry I

One of these courses can be replaced by an additional upper-level course in a sub discipline or cognate discipline.

Fourth Year

Three In-Depth Courses: can be from any specific sub discipline or a mixture of organic, inorganic, analytical, or physical

CH201/300-level research^a/400-level research^b
CH251 (before CH382): Organic II
CH342: Instrumental
CH351: Organic III
CH367: Physical II
CH383: Biochemistry II
CH475: Inorganic II
CH480: Advanced Metabolism (with lab)

Upper-level courses in cognate disciplines (with significant lab hours) may also be approved by the Department.

CH490: Senior Seminar is Required

^a from 301, 302, 303, 304 or 305

^b from 401, 402, 403, 404 or 405

ACS Certified Chemistry Major

(15.50)

First Year

CH107, CH108
MA126, MA129

Second and Third Year

PC 241, PC242
CH250: Organic I
CH251 (before CH382): Organic II
CH241: Analytical
CH275: Inorganic
CH366: Physical or CH365 Biophysical
CH382 (requires CH251): Biochemistry I

Fourth Year

Three In-Depth Courses: can be from any specific sub discipline or a mixture of organic, inorganic, analytical, or physical

CH201/300-level research^a/400-level research^b (with paper)
CH342: Instrumental
CH351: Organic III
CH367: Physical II
CH383: Biochemistry II
CH475: Inorganic II
CH480: Advanced Metabolism (with lab)

Upper-level courses in cognate disciplines (with significant lab hours) may also be approved by the Department.

CH490: Senior Seminar is Required

Biochemistry Major CC

(16.50)

First Year

CH107, CH108
MA126, MA129
MB131

Second and Third Year

PC241, PC242
MB201: (Lab in Cell and Genetics)
CH250: Organic I
CH251: Organic II
CH382 (requires CH251): Biochemistry I
CH241: Analytical *OR* CH366/365: Physical
OR CH275: Inorganic I

Fourth Year

CH383: Biochemistry II
CH201/300-level research^a/400-level
research^b or MB399 (with Department
approval):

Two In-Depth Courses:
In Biochemistry/Chemistry or Cognate
disciplines **with significant lab component**
May be chosen from the following:

CH342: Instrumental
CH351: Organic III
CH367: Physical II
CH400: Topics courses upon approval
CH475: Inorganic II
CH480: Advanced Metabolism (with lab)
BE344: SEM
BE345: TEM
MB350-Special Topics Lab Research
MB355-Laboratory Advanced Genetics
MB360-Laboratory in Molecular Bio

Other upper-level courses in cognate
disciplines (with significant lab hours)
may also be approved.

CH490: Senior Seminar is Required

^a from 301, 302, 303, 304 or 305

^b from 401, 402, 403, 404 or 405

ACS Certified Biochemistry Major

(16.50)

First Year

CH107, CH108
MA126, MA129

Second and Third Year

PC241, PC242
CH250: Organic I
CH251: Organic II
CH382 (requires CH251): Biochemistry I
CH275: Inorganic I
CH241: Analytical
CH366/365: Physical

Fourth Year

CH383: Biochemistry II
CH201/300-level research^a/400-level
research^b with Paper or MB399 (with
Department approval):

Two In-Depth Courses:
In Biochemistry/Chemistry or Cognate
disciplines **with significant lab component**
May be chosen from the following:

CH342: Instrumental
CH351: Organic III
CH367: Physical II
CH400: Topics courses upon approval
CH475: Inorganic II
CH480: Advanced Metabolism (with lab)
BE344: SEM
BE345: TEM
BE366: Comparative Animal Physiology
MB350-Special Topics Lab Research
MB355-Laboratory Advanced Genetics
MB360-Laboratory in Molecular Bio

Other upper-level courses in cognate
disciplines (with significant lab hours)
may also be approved.

CH490: Senior Seminar is Required