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

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ACS Certified Chemistry Major (15.50)  
First Year  
CH107, CH108  
MA126, MA129  

Second and Third Year  
PC 241, PC242  
CH250: Organic  
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

\(^a\) from 301, 302, 303, 304 or 305  
\(^b\) from 401, 402, 403, 404 or 405
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 research²/400-level research³ 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

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 research²/400-level research³ 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

² from 301, 302, 303, 304 or 305
³ from 401, 402, 403, 404 or 405