CURRENT
Biochemistry - ACS Major (73-75 cr. hrs.)
(77-79 cr. hrs. including required supporting courses)

Track A Requirements: 70-71 cr. hrs.
CHEM 121 General Chemistry I (5 cr) or
    CHEM 120 Introduction to General Chemistry (6 cr)
CHEM 122 General Chemistry II (5 cr)
CHEM 231 Organic Chemistry I (3 cr)
CHEM 232 Organic Chemistry II (3 cr)
CHEM 236 Organic Chemistry Lab I (1 cr)
CHEM 237 Organic Chemistry Lab II (1 cr)
CHEM 250 Foundations of Analytical Chemistry (4 cr)
CHEM 261 Laboratory Safety (2 cr)
CHEM 322 Inorganic Chemistry (includes a 1 cr lab portion) (4 cr)
CHEM 341 Chemical Thermodynamics and Kinetics (3 cr) OR
    CHEM 342 Molecular Structure and Spectroscopy (3 cr)
CHEM 361 Biochemistry I (3 cr)
CHEM 362 Biochemistry II (3 cr)
CHEM 366 Biochemistry Laboratory (writing intensive) (1 cr)
CHEM 480 Chemical Communications and Research (writing intensive) (1 cr)
BIOL 150 Introduction to Biology (3 cr)
BIOL 240 Cell and Molecular Biology (3 cr)
BIOL 324 Microbiology (4 cr)
BIOL 350 Genetics and Evolution (writing intensive) (3 cr)
BIOL 451 Molecular Biology (4 cr)
MATH 167 Calculus II (4 cr)
PHYS 121 and PHYS 122 General Physics I, II: Algebra-based (10 cr) OR
    PHYS 131 and PHYS 132 General Physics I, II: Calculus-based (10 cr)

In Depth Electives: At least 4 lab credits. Choose from:
CHEM 316 Polymer Laboratory (1 cr)
CHEM 334 Organic Synthesis Laboratory (2 cr) co-requisite with CHEM 333 Organic Synthesis (2 cr)
CHEM 341 Chemical Thermodynamics and Kinetics (3 cr) OR
    CHEM 342 Molecular Structure and Spectroscopy (3 cr)
CHEM 355 Separation Science Laboratory (1 cr)
CHEM 356 Chemical Instrumentation Lab (writing intensive) (1 cr)
CHEM 378 Semester Abroad (1-4 cr)
CHEM 379 Internship (1-4 cr)
CHEM 401 Advanced Chemistry Lab I (writing intensive) (1 cr)
CHEM 402 Advanced Chemistry Lab II (writing intensive) (1 cr)
CHEM 461 Pharmacology (3 cr)
CHEM 489 Special Topics in Chemistry (1-4 cr)
CHEM 495 Undergraduate Research (1-3 cr)

Required Supporting Courses: 4 cr. hrs.
MATH 166 Calculus I (4 cr)
**Track B Requirements: 70 cr. hrs.**

CHEM 130 Introduction to Organic Chemistry (5 cr)
CHEM 233 Foundations of Organic Chemistry (5 cr)
CHEM 240 Principles of General Chemistry (4 cr)
CHEM 250 Foundations of Analytical Chemistry (4 cr)
CHEM 261 Laboratory Safety (2 cr)
CHEM 322 Inorganic Chemistry (includes a 1 cr. lab portion) (4 cr)
CHEM 333 Organic Synthesis (2 cr)
CHEM 334 Organic Synthesis Laboratory (2 cr)
CHEM 341 Chemical Thermodynamics and Kinetics (3 cr) OR
   CHEM 342 Molecular Structure and Spectroscopy (3 cr)
CHEM 361 Biochemistry I (3 cr)
CHEM 362 Biochemistry II (3 cr)
CHEM 366 Biochemistry Laboratory (writing intensive) (1 cr)
CHEM 480 Chemical Communications and Research (writing intensive) (1 cr)
BIOL 150 Introduction to Biology (3 cr)
BIOL 240 Cell and Molecular Biology (3 cr)
BIOL 324 Microbiology (4 cr)
BIOL 350 Genetics and Evolution (writing intensive) (3 cr)
BIOL 451 Molecular Biology (4 cr)
MATH 167 Calculus II (4 cr)
PHYS 121 and PHYS 122 General Physics I, II: Algebra-based (10 cr) OR
   PHYS 131 and PHYS 132 General Physics I, II: Calculus-based (10 cr)

**In Depth Electives: At least 3 lab credits.** Choose from:
CHEM 316 Polymer Laboratory (1 cr)
CHEM 355 Separation Science Laboratory (1 cr)
CHEM 356 Chemical Instrumentation Lab (writing intensive) (1 cr)
CHEM 378 Semester Abroad (1-4 cr)
CHEM 379 Internship (1-4 cr)
CHEM 401 Advanced Chemistry Lab I (writing intensive) (1 cr)
CHEM 402 Advanced Chemistry Lab II (writing intensive) (1 cr)
CHEM 489 Special Topics in Chemistry (1-4 cr)
CHEM 495 Undergraduate Research (1-3 cr)

**Required Supporting Courses: 4 cr. hrs.**
MATH 166 Calculus I (4 cr)
PROPOSED
Biochemistry - ACS Major (74-76 cr. hrs.)
(78-80 cr. hrs. including required supporting courses)

Track A Requirements: 71-72 cr. hrs.
CHEM 121 General Chemistry I (5 cr) or
   CHEM 120 Introduction to General Chemistry (6 cr)
CHEM 122 General Chemistry II (5 cr)
CHEM 231 Organic Chemistry I (3 cr)
CHEM 232 Organic Chemistry II (3 cr)
CHEM 236 Organic Chemistry Lab I (1 cr)
CHEM 237 Organic Chemistry Lab II (1 cr)
CHEM 250 Foundations of Analytical Chemistry (4 cr)
CHEM 261 Laboratory Safety (2 cr)
CHEM 322 Inorganic Chemistry (includes a 1 cr. lab portion) (4 cr)
CHEM 341 Chemical Thermodynamics and Kinetics (3 cr) OR
   CHEM 342 Molecular Structure and Spectroscopy (3 cr)
CHEM 361 Biochemistry I (3 cr)
CHEM 362 Biochemistry II (3 cr)
CHEM 366 Biochemistry Laboratory (writing intensive) (1 cr)
CHEM 380 Junior Chemistry Seminar (1 cr)
CHEM 480 Chemical Communications and Research (writing intensive) (1 cr)
BIOL 150 Introduction to Biology (3 cr)
BIOL 240 Cell and Molecular Biology (3 cr)
BIOL 324 Microbiology (4 cr)
BIOL 350 Genetics and Evolution (writing intensive) (3 cr)
BIOL 451 Molecular Biology (4 cr)
MATH 167 Calculus II (4 cr)
PHYS 121 and PHYS 122 General Physics I, II: Algebra-based (10 cr) OR
   PHYS 131 and PHYS 132 General Physics I, II: Calculus-based (10 cr)

In Depth Electives: At least 4 lab credits. Choose from:
CHEM 316 Polymer Laboratory (1 cr)
CHEM 334 Organic Synthesis Laboratory (2 cr) co-requisite with CHEM 333 Organic Synthesis (2 cr)
CHEM 341 Chemical Thermodynamics and Kinetics (3 cr) OR
   CHEM 342 Molecular Structure and Spectroscopy (3 cr)
CHEM 355 Separation Science Laboratory (1 cr)
CHEM 356 Chemical Instrumentation Lab (writing intensive) (1 cr)
CHEM 378 Semester Abroad (1-4 cr)
CHEM 379 Internship (1-4 cr)
CHEM 401 Advanced Chemistry Lab I (writing intensive) (1 cr)
CHEM 402 Advanced Chemistry Lab II (writing intensive) (1 cr)
CHEM 461 Pharmacology (3 cr)
CHEM 489 Special Topics in Chemistry (1-4 cr)
CHEM 495 Undergraduate Research (1-3 cr)

Required Supporting Courses: 4 cr. hrs.
MATH 166 Calculus I (4 cr)
Track B Requirements: 71 cr. hrs.
CHEM 130 Introduction to Organic Chemistry (5 cr)
CHEM 233 Foundations of Organic Chemistry (5 cr)
CHEM 240 Principles of General Chemistry (4 cr)
CHEM 250 Foundations of Analytical Chemistry (4 cr)
CHEM 261 Laboratory Safety (2 cr)
CHEM 322 Inorganic Chemistry (includes a 1 cr. lab portion) (4 cr)
CHEM 333 Organic Synthesis (2 cr)
CHEM 334 Organic Synthesis Laboratory (2 cr)
CHEM 341 Chemical Thermodynamics and Kinetics (3 cr) OR
    CHEM 342 Molecular Structure and Spectroscopy (3 cr)
CHEM 361 Biochemistry I (3 cr)
CHEM 362 Biochemistry II (3 cr)
CHEM 366 Biochemistry Laboratory (writing intensive) (1 cr)
CHEM 380 Junior Chemistry Seminar (1 cr)
CHEM 480 Chemical Communications and Research (writing intensive) (1 cr)
BIOL 150 Introduction to Biology (3 cr)
BIOL 240 Cell and Molecular Biology (3 cr)
BIOL 324 Microbiology (4 cr)
BIOL 350 Genetics and Evolution (writing intensive) (3 cr)
BIOL 451 Molecular Biology (4 cr)
MATH 167 Calculus II (4 cr)
PHYS 121 and PHYS 122 General Physics I, II: Algebra-based (10 cr) OR
    PHYS 131 and PHYS 132 General Physics I, II: Calculus-based (10 cr)

In Depth Electives: At least 3 lab credits. Choose from:
CHEM 316 Polymer Laboratory (1 cr)
CHEM 355 Separation Science Laboratory (1 cr)
CHEM 356 Chemical Instrumentation Lab (writing intensive) (1 cr)
CHEM 378 Semester Abroad (1-4 cr)
CHEM 379 Internship (1-4 cr)
CHEM 401 Advanced Chemistry Lab I (writing intensive) (1 cr)
CHEM 402 Advanced Chemistry Lab II (writing intensive) (1 cr)
CHEM 489 Special Topics in Chemistry (1-4 cr)
CHEM 495 Undergraduate Research (1-3 cr)

Required Supporting Courses: 4 cr. hrs.
MATH 166 Calculus I (4 cr)