

Biochemistry Major - Suggested Course Sequence

	FALL	SPRING
Freshman	01:160:161 General Chemistry I (4) 01:119:115 General Biology I (4) 01:640:151 Calculus for Math & Physical Sciences I (4) 01:355:101 Expository Writing (3) 15 credits	01:160:162 General Chemistry II (4) 01:119:116 General Biology II (4) 01:640:152 Calculus for Math & Physical Sciences II (4) 01:160:171 Intro to Experimentaton (1) 15 credits
Sophomore	01:160:307/315 Organic Chemistry I (4) 11:115:201 Contemporary issues in Biochemistry (2) 01:750:XXX Physics (3 to 5) 01:447:380 Genetics (4) RU option elective (3) 16 to 18 credits	01:160:308/316 Organic Chemistry II (4) 01:160:309/311 Organic Chemistry Lab (2) 01:750:XXX Physics (3 to 5) RU option elective (3) 16 to 18 credits
Junior	11:115:403 General Biochem I (4) 11:115:413 Experimental Biochem I (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) 16 credits	11:115:404 General Biochem II (3) 11:115:414 Experimental Biochem II (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) 18 credits
Senior	11:115:493 Research Problems in Biochem (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) 15 credits	11:115:494 Research Problems in Biochem (3) 11:115:406 Problem Solving in Biochemistry (2) 11:115:409 Principles of Biophysical Chemistry (3) 11:115:491 Biochemistry Communications (3) RU or Biochemistry elective (3) RU or Biochemistry elective (3) 17 credits

- Student with a strong science background can taken an additional RU Option Elective (3 credit) both semester of their Freshman year.
- Calculus can be delayed to the Sophomore year. General Biology & General Chemistry must be taken the Freshman year.
- 11:115:201 - Contemporary Issues in Biochemistry can be taken either semester of the Sophomore year.
- Physics may be delayed to the Junior or Senior years.
- A total of 128 credits are needed to graduate from Rutgers. The above is the bare minimum needed to achieve 128 credits.
- It is highly recommended to find a research lab in your Junior year and to start doing research before your Senior year.
- If you take at least three semesters of Research Problems in Biochem (minimum of 3 credits per semester in the same lab) then you may request to be excused from the 11:115:406 Problem solving requirement.
- 11:11:491 Biochemical Communications can be taken either semester of Senior year. It is advisable to have taken at least one semester of Research Problems in Biochemistry before taking Biochemistry Communications.
- Ethics in Biochem Res (115:321) will be offererd both semester and also counts as jr/sr colloquium.