

Yeshiva College Chemistry Major

Minimum Credits Required = 51 credits

CORE REQUIREMENTS — 32 Credits

General Chemistry

- **CHE 1045** – General Chemistry I (3)
- **CHE 1046** – General Chemistry II (3)
- **CHE 1047** – General Chemistry Lab (2)

Organic Chemistry

- **CHE 1213** – Organic Chemistry I (3)
- **CHE 1214** – Organic Chemistry II (3)
- **CHE 1215** – Organic Chemistry Lab (2)

Chemical Analysis, Physical Chemistry & Advanced Lab

- **CHE 1122** – Chemical Analysis (4)
- **CHE 1415** – Physical Chemistry I (4)
- **CHE 1416** – Physical Chemistry II (4)
- **CHE 1222** – Advanced Chemistry Lab (3)
- **CHE 1937/1938** – Chemistry Seminar (1)

ELECTIVES — Minimum 3 Credits (1 req.)

- **CHE 1124** – Forensic Chemistry (3)
- **CHE 1232** – Medicinal Chemistry (3)
- **CHE 1233** – Synthetic & Charact. Chemistry (3)
- **CHE 1372** – Bioinformatics with Lab (4)
- **CHE 1375** – Molecular Biochemistry (4)
- **CHE/BIO 1376** – Principles of Biochemistry (3)
- **CHE/BIO 1376 & 1377** – Biochemistry with Lab (5)
- **CHE 1378** – Advanced Biochemistry (3)
- **CHE 1379** – Metals in Biology (4)
- **CHE 1607** – Inorganic & Structural Chemistry or Molecular Structure & Dynamics (3)
- **CHE 1415** – Physical Chemistry Laboratory (3)
- **CHE 1930** – Special Topics in Chemistry (2)

OTHER REQUIRED COURSES — 16 Credits

Mathematics

- **MAT 1412** – Calculus I (4)
- **MAT 1413** – Calculus II (4)

Physics

- **PHY 1031 & 1033** – Physics I with Lab (4)
- **PHY 1032 & 1034** – Physics II with Lab (4)

RECOMMENDED COURSES:

- **BIO 1011 & 1013** – Principles of Biology I (4)
- **BIO 1012 & 1014** – Principles of Biology II (4)
- **CHE 491** – Research in Chemistry (1–3)