Total Major hours: 52
Suggested hours per semester: 16-18

Chemistry Major
with a Biochemistry Concentration

Major Academic Plan (MAP) for Catalog Year 2020-2021

The catalog is the final authority on CATC and major requirements; this is intended as a tool for planning purposes. Student course sequencing may vary depending on course offerings and other variables.

Fall Semester 1	**Spring Semester 1**	**Summer 1**
CHEM 231: General Chemistry I* or CHEM 341: Organic Chem. II* MATH 231: Calculus I[1]* *CORE 101: First Year Seminar* *First-Year CATC options-* ▪ *AHS 101: Wellness (2)* ▪ *COMM 101: Oral Comm (2)* ▪ *ENGW 103: First-Year Writing* ▪ *Language Core Competency or Thematic Core Course*	CHEM 232: General Chemistry II* or CHEM 342: Organic Chem. II* *First-Year CATC options* *Language Core Competency* *BITH 211/ARCH 211: Old Testament*	Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research
Fall Semester 2	**Spring Semester 2**	**Summer 2**
CHEM 341: Organic Chemistry I*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 221: General Physics I[1]* or 231: Introductory Physics I[1]* *Core Competency Courses (4-8)* *BITH 213/ARCH 213: New Testament*	CHEM 342: Organic Chemistry II*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 222: General Physics II* or 232: Introductory Physics II* *BITH 315: Christian Thought**	Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research
Fall Semester 3	**Spring Semester 3**	**Summer 3**
CHEM 355: Intro. to Analytical Chem. (2)* CHEM 371: Physical Chem. I* *Thematic Core Course (4-8)* *Advanced Integrative Seminar?**	CHEM 336: Inorganic Chemistry* CHEM 461: Gen. Biochemistry* CHEM 455: Adv. Analytical I (2)[S, 2]* *Thematic Core Course* *Advanced Integrative Seminar?**	Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research
Fall Semester 4	**Spring Semester 4**	**Summer 4**
CHEM 494: Chemistry in Context (2)* CHEM 462: Adv. Biochemistry (2)* CHEM 457: Adv. Analytical II (2)[F, 2]* *Thematic Core Course (4-8)* *Complete CATC Coursework*	CHEM 463: Biochemistry Analysis (2)* *Thematic Core Course* *Complete CATC Coursework*	

Notes or Special Guidance for Majors:

* Course has prerequisite

Last Updated: 5/8/2020

[F] Fall only course
[S] Spring only course
[#] Offered every other year

[1] Classes that meet CATC tags: MATH 231 (AAQR), PHYS 231 (SP)

[2] A big difference between the Basic Major and the Biochemistry Emphasis major is one can get by with only one semester of calculus and take algebra-based physics (PHYS 221/2). Beyond that, there are no electives in the major, other than which Adv. Analytical is taken: CHEM 455 in the spring only, or CHEM 457 in the fall.