

Mathematics Major

Total Major Hours: 38-46
Suggested hours per semester: 16

Major Academic Plan (MAP) for Catalog Year 2023-2024

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 MATH 236 Calculus II* ^{1, 2} CORE 101: First Year Seminar First-Year CATC options- <ul style="list-style-type: none"> ▪ COMM 101: Oral Comm (2) ▪ ENGW 103: First-Year Writing ▪ Language Core Competency or Thematic Core Course 	Spring Semester 1 MATH 245 Linear Algebra* MATH 237 Calculus III First-Year CATC Options (2-4) Language Core Competency BITH 211/ARCH 211: Old Testament	Summer 1 Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research at Wheaton, Research Experiences with Undergraduates (REUs), Summer Institute in Biostatistics (SIBS)
Fall Semester 2 MATH 241 Introduction to Proofs* (2) or CSCI 243 Discrete Mathematics & Functional Programming ¹ MATH 301 Intro to Upper-Level Math* (2) (Fall or Spring) Thematic Core or Core Competency Courses (4-8) BITH 213/ARCH 213: New Testament	Spring Semester 2 MATH 333 Differential Equations* CSCI 235 Programming I ¹ OR CSCI 245 Programming II* Thematic Core Course BITH 315: Christian Thought* Advanced Integrative Seminar?*	Summer 2 Consider study, internship or research options.
Fall Semester 3 MATH 363 Probability & Statistics I* Math Course in Concentration Consider semester off campus or abroad – GPS Advanced Integrative Seminar?*	Spring Semester 3 Math Course in Concentration Thematic Core Course Advanced Integrative Seminar?*	Summer 3 Consider study, internship or research options.
Fall Semester 4 MATH 494 Senior Seminar* (2) Math Course in Concentration Math Course in Concentration Complete CATC Coursework	Spring Semester 4 MATH 494 Senior Seminar* (2), if not complete Math Course in Concentration Complete CATC Coursework	Summer 4

Notes or Special Guidance for Majors:

*Course has prerequisite

^F Fall only course

^S Spring only course

[#] Offered every other year

¹ Mathematics major courses that meet CATC tags: CSCI 235 (AAQR), CSCI 243 (AAQR), MATH 235 (AAQR), Calculus AB or BC AP Exam with qualifying score (AAQR)

² Students not ready for Calculus II should discuss with their faculty advisor next steps.

Guidelines for determining Calculus placement:

1. Students with a score of 4 or 5 on AP Calculus BC Exam receive credit for MATH 235 (Calculus I) and MATH 236 (Calculus II). They should enroll in Math 237 (Calculus III).
2. Students with a score of 3 on the AP Calculus BC Exam or a score of 4 or 5 on the AP Calculus AB Exam receive credit for MATH 235 (Calculus I). They should enroll in MATH 236 (Calculus II).
3. Students without AP or dual enrollment credit should take the [Calculus Readiness Assessment](#).

-Concentrations: All math majors complete a common set of required mathematics courses in their first two years. During their sophomore year, each math major chooses one of the following four concentrations: Pure Mathematics, Statistics, Applied Mathematics, or Math and Secondary Education. Each concentration has a required set of upper-level mathematics course requirements. These requirements can be found on the [department's website](#) or in the Course Catalog.