Mathematics Major

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

Major Academic Plan (MAP) for Catalog Year 2021-2022

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
Calculus[1, 2] *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*	MATH 245 Linear Algebra* MATH 331 Vector Calculus* (2) *First-Year CATC Options (2-4)* *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 at Wheaton, Research Experiences with Undergraduates (REUs), Summer Institute in Biostatistics (SIBS)
Fall Semester 2	**Spring Semester 2**	**Summer 2**
MATH 241 Introduction to Proofs* (2) or CSCI 243 Discrete Mathematics & Functional Programming[1] MATH 301 Intro to Upper-Level Math* (2) *Thematic Core or Core Competency Courses (4-8)* *BITH 213/ARCH 213: New Testament*	MATH 333 Differential Equations* CSCI 235 Programming I[1] OR CSCI 245 Programming II* *Thematic Core Course* *BITH 315: Christian Thought** *Advanced Integrative Seminar?**	Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research, Research Experiences with Undergraduates (REUs), Summer Institute in Biostatistics (SIBS)
Fall Semester 3	**Spring Semester 3**	**Summer 3**
MATH 363 Probability & Statistics I* Math Course in Concentration Consider semester off campus or abroad – GPS *Advanced Integrative Seminar?**	Math Course in Concentration *Thematic Core Course* *Advanced Integrative Seminar?**	Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research, Research Experiences with Undergraduates (REUs), Summer Institute in Biostatistics (SIBS)
Fall Semester 4	**Spring Semester 4**	**Summer 4**
MATH 494 Senior Seminar* (2) Math Course in Concentration Math Course in Concentration *Complete CATC Coursework*	MATH 494 Senior Seminar* (2) Math Course in Concentration *Complete CATC Coursework*	

Notes or Special Guidance for Majors:

*Course has prerequisite
F Fall only course
S Spring only course
#Offered every other year

1Mathematics major courses that meet CATC tags: CSCI 235 (AAQR), CSCI 243 (AAQR), MATH 231 (AAQR), Calculus AB or BC AP Exam with qualifying score (AAQR)

2Guidelines for determining Calculus placement:

1. Students with a score of 4 or 5 on AP Calculus BC Exam should enroll in Math 234 (Calculus 2B) in A Quad and MATH 331 (Vector Calculus) in B Quad.
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 should enroll in MATH 232 (Calculus 2).
3. Students with a score of 3 on the AP Calculus AB Exam should enroll in MATH 233 (Calculus 1B) in B-Quad.
4. 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.