

Mathematics Major with Secondary Education 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.

<p>Fall Semester 1</p> <p>Calculus^{1,2} EDUC 135 School & Society (2) EDUC 136 Teaching Ethnically & Linguistically Diverse Students (2) EDUC 136L (1)</p> <p><i>CORE 101: First Year Seminar</i> <i>First-Year CATC options-</i></p> <ul style="list-style-type: none"> ▪ AHS 101: Wellness (2) ▪ COMM 101: Oral Comm (2) ▪ ENGW 103: First-Year Writing ▪ Language Core Competency or Thematic Core Course 	<p>Spring Semester 1</p> <p>MATH 245 Linear Algebra* MATH 331 Vector Calculus* (2)</p> <p><i>First-Year CATC Options (2-4)</i> <i>Language Core Competency</i> <i>BITH 211/ARCH 211: Old Testament</i></p>	<p>Summer 1</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p>Fall Semester 2</p> <p>MATH 241 Introduction to Proofs* (2) or CSCI 243¹ MATH 301 Intro to Upper-Level Math* (2) EDUC 225 EDUC 225L (1)</p> <p><i>Thematic Core or Core Competency Courses (4-8)</i> <i>BITH 213/ARCH 213: New Testament</i></p>	<p>Spring Semester 2</p> <p>MATH 333 Differential Equations* CSCI 235¹ OR CSCI 245*</p> <p><i>Thematic Core Course</i> <i>BITH 315: Christian Thought*</i> <i>Advanced Integrative Seminar*</i></p>	<p>Summer 2</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p>Fall Semester 3</p> <p>MATH 363 Probability and Statistics I* MATH 324 Methods of Teaching Mathematics (2)⁴ MATH 341 Modern Algebra* EDUC 305 (2)* EDUC 306^{4*} EDUC 305L (1)* EDUC 324L (1)^{4*}</p>	<p>Spring Semester 3</p> <p>MATH 325 Methods of Teaching Middle Grade Mathematics (2)⁴ MATH 351 Analysis I* MATH 362 Geometry*</p> <p><i>Thematic Core Course (4-8)</i></p>	<p>Summer 3</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research</p>
<p>Fall Semester 4</p> <p>EDUC 494 (2) EDUC 496 (9)^{4*} EDUC 497 (3)</p>	<p>Spring Semester 4</p> <p>MATH 494 Senior Seminar* (2)</p> <p><i>Complete CATC Coursework</i></p>	<p>Summer 4</p>

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 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](#).

³Concentrations: 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.

⁴ Requires acceptance into the WheTEP program.