

## Mathematics Major with Secondary Education Concentration

### Major Academic Plan (MAP) for Catalog Year 2022-2023

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><b>Fall Semester 1</b></p> <p>Calculus II*<sup>1, 2</sup>            EDUC 101 The Teaching Profession (2)<sup>5</sup>            EDUC 135 School &amp; Society (2)<sup>5</sup>            EDUC 136 Teaching Ethnically &amp; Linguistically Diverse Students (2)<sup>5</sup>            EDUC 136L (1)<sup>5</sup></p> <p><i>CORE 101: First Year Seminar</i>  <i>First-Year CATC options-</i></p> <ul style="list-style-type: none"> <li>▪ AHS 101: Wellness (2)</li> <li>▪ COMM 101: Oral Comm (2)</li> <li>▪ ENGW 103: First-Year Writing</li> <li>▪ Language Core Competency or Thematic Core Course</li> </ul>	<p><b>Spring Semester 1</b></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><b>Summer 1</b></p> <p><i>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research</i></p>
<p><b>Fall Semester 2</b></p> <p>MATH 241 Introduction to Proofs* (2) or CSCI 243<sup>1</sup>            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><b>Spring Semester 2</b></p> <p>MATH 333 Differential Equations*            CSCI 235<sup>1</sup> OR CSCI 245*            EDCU 305 Learning Differences</p> <p><i>Thematic Core Course</i>  <i>BITH 315: Christian Thought*</i>  <i>Advanced Integrative Seminar*</i></p>	<p><b>Summer 2</b></p> <p><i>Consider study, internship or research options.</i></p>
<p><b>Fall Semester 3</b></p> <p>MATH 351 Analysis I*            MATH 363 Probability and Statistics I*            EDUC 306<sup>4*</sup></p>	<p><b>Spring Semester 3</b></p> <p>MATH 324 Methods of Teaching Mathematics (2)<sup>5</sup>            MATH 325 Methods of Teaching Middle Grade Mathematics (2)<sup>5</sup>            MATH 362 Geometry*<sup>#</sup>            MATH 341 Modern Algebra*            LING 326 English Language Methods for Content Area Teachers (2)<sup>5</sup>            EDUC 305L Learning Differences Practicum (1)<sup>4*</sup>            EDUC 324L Methods Practicum (Middle &amp; High School) (1)<sup>4*</sup>  <i>Thematic Core Course (4-8)</i></p>	<p><b>Summer 3</b></p> <p><i>Consider study, internship or research options.</i></p>

Fall Semester 4	Spring Semester 4	Summer 4
EDUC 494 (2)* EDUC 496 (9)* EDUC 497 (3)*	MATH 494 Senior Seminar* (2)  Complete CATC Coursework	

**Notes or Special Guidance for Majors:**

\*Course has prerequisite

<sup>F</sup> Fall only course

<sup>S</sup> Spring only course

<sup>#</sup>Offered every other year

<sup>1</sup> Courses that meet CATC tags (with max of 3 from major counting for Christ at the Core Thematic Core) are included in elective and study abroad courses. Secondary Education courses that meet the CATC Thematic Core tags: EDUC 225 (SI) and EDUC 497 (with EDUC 135 taken at Wheaton) meets the PI theme. 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). A maximum of 3 themes can count in both the major requirements and the general education requirements - for each major.

<sup>2</sup> 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 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](#).

<sup>3</sup>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.

Note: Secondary Education can be added to any of the Mathematics concentrations listed above. But the department recommends the Secondary Education concentration for those interested in pursuing teaching math at the high school level.

<sup>4</sup> EDUC 324L and EDUC 305L are taken concurrently the semester prior to student teaching.

<sup>5</sup> While EDUC 135, 136 and 136L need to be taken together, EDUC 101 can be taken separately. These courses should be completed during the first year.