

# Advising Guide for Freshman & Sophomore

# Mathematics with Teacher Education

Mathematics with Teacher Education students will begin in the Education Focus Area. Transfer credits, AP and other credit will be evaluated on an individual basis. Please speak with your academic advisor for your individual plan.

## General Education Courses

### (40 hours)

#### Freshman Requirement (1 hour)

COUN 1008 – Mastering College (1)

#### Communications (9 hours)

ENGL 1000 – Writing Studies I (3)

ENGL 1010 – Writing Studies II (3)

COMM 1000 – Public Discourse (3)

#### Humanities and Fine Arts (9 hours)

Fine Arts Course (3)\*

FYS 1001 – First Year Seminar (3)

*HIST 1110 – History of US to 1865 (3) OR*

*HIST 1120 – History of US since 1865 (3)*

#### Mathematics (4)

MATH 2290 – Calculus I (4)

#### Physical and Life Sciences (8)

BIOL 1500/1501 – General Bio I and Lab (4)

PHYS 2141/2142 – Interm. Physics I and Lab (4)

#### Social and Behavioral Sciences (9 hours)

[courses must be from at least two different disciplines]

POLS 2100 – American National Gov't (3)

PSYC 1101 – Principles of Psychology (3)

Social and Behavioral Science Course (3)\*

## Major Courses

### (77 hours)

#### Education Foundation Courses (6 hours)

EDUC 2310 – Foundations of Education (3)

SPED 2100 – Survey of Students with Exceptionalities (3)

#### Mathematics Core Courses (48 hours)

MATH 2271 – Differential Equations (3)

MATH 2292 – Calculus II (4)

MATH 2294 – Calculus III (4)

MATH 2449 – Linear Algebra (3)

MATH 3099 – Jr. Seminar: Discrete Math (3)

MATH 4133 – Number Theory (3)

MATH 4171 – History of Mathematics (3)

MATH 4337 – Modern Geometry (3)

MATH 4451 – Modern Algebra (3)

MATH 4241 – Analysis I: Real Variables (3)

MATH 4243 – Analysis II: Complex Variable (3)

MATH 4557 – Probability (3)

MATH 4637 – Mathematics Laboratory (3)

PHYS 2143/2144 – Interm. Physics II (4)

STAT 4219 – Statistical Methods (3)

#### Upper Division Education Courses (23 hours)

EDUC 3440 – Education Psychology II (3)

EDUC 4360 – Principles of Math Education (3)

EDUC 4370 – Teaching Secondary School Math (3)

EDUC 4999 – Student Teaching: Sr Capstone (12)

## Electives (3 hours)

## Minimum Total 120

Students must earn a “C” or better in all general education courses.

\*Fine Arts or Social Science must be a non-western course.

Advising guide updated 12.12.2019