

Advising Guide for Freshman & Sophomore

Mathematics

Mathematics students will begin in the STEM 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)

Humanities or Fine Arts Course (3)

Mathematics (4)

MATH 2290 – Calculus I (4)

Physical and Life Sciences (8)

Life Science Course with Lab (4)

PHYS 2171/2172 – University Physics I and Lab(4)

Social and Behavioral Sciences (9 hours)

[courses must be from at least two different disciplines]

Social and Behavioral Science Course (3)

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Minimum Total 120

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

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Major Courses

(57-61 hours)

Mathematics Core Courses (30 hours)

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 4241 – Analysis I: Real Variables (3)

MATH 4451 – Modern Algebra (3)

MATH 4993 – Math Senior Capstone (3)

PHYS 2181/2182 – University Physics II (4)

Required Course Category Selectives

(9-10 hours)

Select **one** course in each of the following categories:

Category 1: MATH 4250 or MATH 4557 or STAT 4219

Category 2: MATH 4229 or MATH 4243

Category 3: MATH 4337 or MATH 4373

Mathematics Selectives (15-17 hours)

- Please see your advisor and catalog for selective course choices.

Computer Science Selective (3-4 hours)

Select from the following courses:

CPSC 2005, CPSC 2100, CPSC 3120, CPSC 3142, CPSC 3143 or PHYS 2500

Electives (19-23 hours)