

*University of Indianapolis – Shaheen College of Arts & Sciences***2025-2026 Curriculum Guide for Mathematics Majors (MATH)**

Bachelor of Arts or Bachelor of Science

Freshman and Sophomore Year

- **MATH 185** Orientation to the Math Sciences (1)
- **MATH 190** Calculus and Analytic Geometry I (4)
- **MATH 191** Calculus and Analytic Geometry II (4)
- **MATH 270** Calculus and Analytic Geometry III (4)
- **MATH 230** Calculus Sequence Seminar (1)
- **MATH 280** Linear Algebra (4)
- **MATH 300** Foundations of Abstract Mathematics (4)

Junior and Senior Year

- **MATH 350** Probability and Statistics I (3)
- **MATH 351** Probability and Statistics II (3)
- **MATH 360** Proof & Linear Algebra Seminar (1)
- **MATH 430** Abstract Algebra I (4)
- **MATH 460** Mathematics Capstone (1)
- **MATH 480** Real Analysis I (4)
- **MATH ELEC** Mathematics elective (must be 330 or higher) (3 or 4)

Mathematics Electives (Taken during the Junior or Senior Year):

(One course will fulfill degree requirements. Secondary Education co-majors must take MATH 380)

- **MATH 330** Differential Equations (3)
- **MATH 380** Modern Geometries (4)

Required Computer Science and Physical Science Courses:

- **CSCI 155** Introduction to Programming (3)
- **PHYS 153** General Physics I, Calculus Based (4)

NOTES:

- Students can also obtain credit towards a math elective through MATH 325, Special Topics, or MATH 492, Research in Mathematics with consent of the department.
- A total of 48-49 hours is required for the Mathematics Major.
- A grade of C- (1.7 on a 4.0 scale) or higher is required in all courses applying toward the Mathematics Major.
- The Bachelor of Arts and Bachelor of Science degrees require a minimum of 120 hours.
- See the General Education Core Guide for additional course requirements.

REMEMBER: If you have any questions about Mathematics major and its requirements, contact Dr. Livia Hummel, Department of Mathematical Sciences (317-788-3320; hummell@uindy.edu; Martin Hall, Room 301D) or your academic advisor. Courses and requirements sometimes change so keep in contact with your advisor.