

Mathematics (B.A.)

2022-2023 catalog

Student Name: _____ ID Number: _____

Major Requirements

All classes must be completed with a C- grade or better. Each course may count only once towards the major. No more than 4 credits of internship may count towards the major. Students completing a major in Mathematics are not eligible for a minor in Mathematics. At least two MAT courses numbered 300 or above must be taken at Augsburg.

| Term Completed/Planned | Grade | Credit | Course # | Title |
|---|-------|--------|--|--|
| Complete both Calculus I and Calculus II | | | | |
| _____ | _____ | 4 | MAT145 and 145L: Calculus I (NSM) | |
| _____ | _____ | 4 | MAT146 and 146L: Calculus II (NSM) | |
| Complete both advanced discrete mathematics and linear algebra | | | | |
| _____ | _____ | 4 | MAT302 | Discrete Mathematical Structures |
| _____ | _____ | 4 | MAT315 | Linear Algebra |
| Complete one (1) geometric perspective course | | | | |
| _____ | _____ | 4 | MAT255 | Multivariable Calculus |
| _____ | _____ | 4 | MAT335 | Exploring Geometry |
| Complete one (1) theoretical structures course | | | | |
| _____ | _____ | 4 | MAT350 | Graph Theory |
| _____ | _____ | 4 | MAT360 | Dynamical Systems |
| _____ | _____ | 4 | MAT370 | Real Analysis |
| _____ | _____ | 4 | MAT380 | Abstract Algebra |
| Complete one (1) MAT elective numbered 300 or above | | | | |
| _____ | _____ | 4 | | |
| Complete one (1) advanced mathematics elective numbered 350 or above, chosen from: | | | | |
| _____ | _____ | 4 | MAT350 | Graph Theory |
| _____ | _____ | 4 | MAT360 | Dynamical Systems |
| _____ | _____ | 4 | MAT370 | Real Analysis |
| _____ | _____ | 4 | MAT373 | Probability Theory |
| _____ | _____ | 4 | MAT380 | Abstract Algebra |
| _____ | _____ | 4 | MAT395 | Topics |
| _____ | _____ | 4 | MAT399 | Internship (or 4 credits of MAT 396, 397, 398) |
| _____ | _____ | 4 | MAT455 | Numerical Mathematics and Computation |
| _____ | _____ | 4 | MAT465 | Modeling and Differential Equations in Biological and Natural Sciences |
| _____ | _____ | 4 | MAT499 | Independent Study |
| Complete one (1) advanced elective, chosen from: | | | | |
| _____ | _____ | 4 | DST elective numbered 300 or above | |
| _____ | _____ | 4 | ECO416 | Mathematical Economics |
| _____ | _____ | 4 | An additional MAT elective numbered 300 or above | |
| _____ | _____ | 4 | PHY327 | Special Functions of Mathematical Physics |
| Pass MAT491 in your final semester | | | | |
| _____ | _____ | 0 | MAT491 | Mathematics Colloquium |
| Complete one (1) Speaking skill course | | | | |
| _____ | _____ | 2 | MAT201 | Communicating Mathematics |
| _____ | _____ | 4 | COM111 | Public Speaking (HUM) |
| _____ | _____ | 4 | COM115 | Scientific and Technical Public Speaking (HUM) |
| _____ | _____ | | Speaking skill course from another major: | |

Abbreviation Key: ML = Modern Language; SC = Signature Curriculum; EM = Engaging Minneapolis; AE = Augsburg Experience; KC = Senior Keystone Course; NSM = Natural Science & Mathematics - no lab; NSM-L = Natural Science & Mathematics-with lab; SBS = Social & Behavioral Science; FA = Fine Arts; HUM = Humanities

Mathematics (B.A.)

Student's Signature

Date

Advisor's Printed Name

Signature

Date

Advisor(s): By signing, you indicate you have verified the accuracy of the information above. Faculty advisors must initial next to each course substitution/waiver and sign this form.