

Mathematics (B.A.)

2021-2022 catalog

Student Name: _____ **ID Number:** _____

Major Requirements

All classes must be completed with a C- grade or better.

| Term Completed/Planned | Grade | Credit | Course # | Title |
|------------------------|-------|--------|----------|----------------------------------|
| _____ | _____ | 4 | MAT145 | Calculus I (NSM) |
| _____ | _____ | 4 | MAT146 | Calculus II (NSM) |
| _____ | _____ | 4 | MAT245 | Calculus III |
| _____ | _____ | 4 | MAT246 | Linear Algebra |
| _____ | _____ | 4 | MAT271 | Discrete Mathematical Structures |

Complete **one (1)** of the following:

| | | | | |
|-------|-------|---|--------|--|
| _____ | _____ | 4 | MAT304 | Graph Theory |
| _____ | _____ | 4 | MAT314 | Abstract Algebra |
| _____ | _____ | 4 | MAT324 | Analysis |
| _____ | _____ | 4 | MAT363 | Dynamical Systems |
| _____ | _____ | | | Other approved theoretical structures course |

Complete **three (3)** electives, with at least two being numbered 300 or above, chosen from:

| | | | | |
|-------|-------|---|--------|--|
| _____ | _____ | 4 | MAT252 | Exploring Geometry |
| _____ | _____ | 4 | MAT273 | Statistical Modeling |
| _____ | _____ | 4 | MAT287 | History of Mathematics |
| _____ | _____ | 4 | MAT304 | Graph Theory |
| _____ | _____ | 4 | MAT314 | Abstract Algebra |
| _____ | _____ | 4 | MAT324 | Analysis |
| _____ | _____ | 4 | MAT355 | Numerical Mathematics and Computation |
| _____ | _____ | 4 | MAT363 | Dynamical Systems |
| _____ | _____ | 4 | MAT369 | Modeling and Differential Equations in Biological and Natural Sciences |
| _____ | _____ | 4 | MAT373 | Probability Theory |
| _____ | _____ | 4 | MAT374 | Statistical Theory and Applications |
| _____ | _____ | 4 | MAT377 | Operations Research |
| _____ | _____ | 4 | MAT394 | Topics in Statistics |
| _____ | _____ | 4 | MAT395 | Topics |
| _____ | _____ | 4 | MAT399 | Internship |
| _____ | _____ | 4 | MAT499 | Independent Study |
| _____ | _____ | 4 | ECO416 | Mathematical Economics |
| _____ | _____ | 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

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.