## Applied Mathematics Option



| M 430 | Mathematical Biology | 3 |
| :--- | :--- | :--- |
| M 431 | Abstract Algebra I | 3 |
| M 442 | Numerical Solution of Differential Equations | 3 |
| M 450 | Applied Mathematics I | 3 |
| M 451 | Applied Mathematics II | 3 |
| M 454 | Introduction of Dynamical Systems I | 3 |
| M 455 | Introduction to Dynamical Systems II | 3 |
| M 472 | Introduction to Complex Analysis | 3 |
| M 476 | Introduction to Topology | 3 |
| STAT 332 | Statistics for Scientists and Engineers | 3 |
| STAT 337 | Intermediate Statistics with Introduction to | 3 |
| STAT 421 | Statistical Computing |  |
| Probability Theory | 3 |  |
| STAT 422 | Mathematical Statistics | 3 |

* At least nine credits must be 400 level.
** May be replaced with another mathematical application area with advisor approval.

A minimum of 120 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above. Core 2.0 must be completed for graduation.

## Accelerated M.S. Plan

The Accelerated M.S. Program (AMSP) is designed to provide MSU undergraduates a path to earning both the B.S. and the M.S. in Mathematics in a total of five years. Undergraduate students earning a B.S. in Mathematics at Montana State University may accelerate their program through any combination of Advanced Placement Credit, transfer credit, and higher semester credit loads so that they may receive their B.S. degree after four years and their M.S. degree after the fifth year. The undergraduate student can complete specific graduate level course work during year 4 of the undergraduate program. These courses can be reserved for graduate credit towards the M.S. degree. With careful planning by the student and the academic advisor, this can compress the time required to fulfill requirements of both the B.S. and M.S. degrees to a total of five years. The M.S. degree is typically a non-thesis degree (course work and exams only), and all M.S. requirements described above in the Non-
Thesis Plan must be fulfilled, unless otherwise approved by the student's graduate committee. It is essential that student interested in the accelerated M.S. plan begin discussions with their undergraduate advisor no later than freshman year. To learn more about the AMSP, please visit http:// catalog.montana.edu/graduate/letters-science/mathematical-sciences/msmathematics/

