## MATH B.S. - OPTION I: Applied Mathematics Option

(for majors from the 2021-2022 catalogue year)


## Graduation Requirements

A minimum $\mathbf{4 0}$ units of upper division courses and $\mathbf{1 2 0}$ total units are required for graduation. For an extensive list of other graduation requirements, check "academic requirement" in your GET account.

## *Group IV Courses

- BIOL 1200 - Diversity of Life (5)
- BIOL 4800 - Modeling Biological Systems (3) or MATH 4800 - Topics in Mathematical Modeling (3)
- BINF 4000/CHEM 4860 - Bioinformatics and Computational Biology (3)
- CHEM 1100 - General Chemistry I (5)
- CS 2012 - Introduction to Programming II (3)
- ECON 2090 - Applied Business and Economic Statistics I (3)
- ECON 4010 - Mathematical Economics (3)
- PHYS 2200 - General Physics II: Electromagnetism and Circuits (5)


## ** Upper Division Electives

- MATH 3200 - Selected Topics in History of Mathematics (3)
- MATH 4010 - Ordinary Differential Equations (3)
- MATH 4021 - Advanced Math I for Engineers and Physicists (3)
- MATH 4030 - Partial Differential Equations (3)
- MATH 4100 - Vector Analysis (3)
- MATH 4200 - Mathematical Logic (3)
- MATH 4300 - Modern Geometry (3)
- MATH 4460 - Theory of Numbers (3)
- MATH 4540 - Selected Topics in Advanced Math (3)
- MATH 4560 - Modern Algebra II (3)
- MATH 4660 - Analysis II (3)
- MATH 4670 - Multivariate Analysis (3)
- MATH 4690 - Introduction to Topology (3)
- MATH 4700 - Numerical Analysis I (3)
- MATH 4710 - Numerical Analysis II (3)
- MATH 4720 - Linear Optimization (3)
- MATH 4750 - Introduction to Mathematical Statistics I (3)
- MATH 4840 - Graph Theory (3)
- MATH 4800 - Topics in Mathematical Modeling (3) or BIOL 4800 - Modeling Biological Systems (3)
- BINF 4000/CHEM 4860 - Bioinformatics and Computational Biology (3)
- ECON 4010 - Mathematical Economics (3)
- PHYS 4101 - Mathematical Methods of Physics (3)
- PHYS 4102 - Mathematical Methods of Physics (3)

