## Foundational Courses

- MATH 140 (4)
- MATH 141 (4)
- MATH 220 (2)
- MATH 230 (4)
- MATH 250 (3) or 251 (4)
- MATH 311W (3)
- MATH 312 (3)
- CMPSC 101 or 121 or 201 (3)
- STAT 200 (4)

## Option Requirements

- MATH 403 (3)
- MATH 412 (3)
- MATH/STAT 414 (3)
- MATH/STAT 415 (3)
- MATH 436 (3)
- MATH 450 (3)
- MATH 455 (3)

Choose 12 Credits from the following:

- MATH 411 (3)
- MATH 416 (3)
- MATH 417 (3)
- MATH 419 (3)
- MATH 421 (3)
- MATH 456 (3)
- MATH 461 (3)
- MATH 467 (3)
- MATH 468 (3)
- MATH 479 (3)
- MATH 484 (3)
- MATH 485 (3)
- MATH 486 (3)

## Supporting Courses

## General Education Requirements

- Writing/Speaking Skills (GWS) (9 credits)
- ENGL 15 or 30 (3)
- ENGL 202 (3)
- CAS 100 (3)

- Arts (GA) (6 credits)

- Humanities (GH) (6 credits)

- Social and Behavior Sciences (GS) (6 credits)

- Natural Science (GN) (9 credits)

- Health and Wellness (GHW) (3 credits)

- United States Cultures (US)
- International Cultures (IL)
- First Year Seminar

**Total Credits:** 120

*Bold type indicates that courses require a grade of C or better.*

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**Applied and Industrial Option**

The goal of this option is to train students in the area of applied and industrial mathematics. This option will prepare students to use mathematics to solve problems arising in industry and will also prepare students for graduate study in applied mathematics. The main mathematical tools needed are analysis, differential equations, numerical analysis and computing, probability and statistics, matrix theory, and mathematical modeling.

[https://math.psu.edu/undergraduate](https://math.psu.edu/undergraduate)