# Graduate Option

The goal of this option is to prepare students for graduate study in mathematics. With this in mind, this option requires students to complete mathematics coursework in the key areas of abstract algebra, linear algebra, real analysis, complex analysis, and topology. Students can also supplement their learning by choosing additional mathematics courses in fields of interest to them.

## Foundational Courses
(30-31 credits total)

- [ ] 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
(33 credits total)

- [ ] MATH 403 (3)
- [ ] MATH 404 (3)
- [ ] MATH/STAT 414 (3)
- [ ] MATH/STAT 415 (3)
- [ ] MATH 421 (3)
- [ ] MATH 429 (3)
- [ ] MATH 435 (3)
- [ ] MATH 436 (3)

Choose 9 credits of **400-level MATH** except MATH 401, 405, 406, 441, 470, or 471.

- [ ] ______________________ (3)
- [ ] ______________________ (3)
- [ ] ______________________ (3)

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

## Supporting Courses
(17-18 credits total)

## General Education Requirements
(39 credits total)

- **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**

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