

MATHEMATICS APPLICATIONS, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Requirements

| Requirement | Credits |
|----------------------------|---------|
| Requirements for the Minor | 26-28 |

Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10>). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

| Code | Title | Credits |
|---|---|---------|
| Prescribed Courses | | |
| <i>Prescribed Courses: Require a grade of C or better</i> | | |
| MATH 140 | Calculus With Analytic Geometry I | 4 |
| MATH 141 | Calculus with Analytic Geometry II | 4 |
| Additional Courses | | |
| <i>Additional Courses: Require a grade of C or better</i> | | |
| Select 6-8 credits from the following: | | 6-8 |
| MATH 220 | Matrices | |
| MATH 230 | Calculus and Vector Analysis | |
| MATH 231 | Calculus of Several Variables | |
| MATH 232 | Integral Vector Calculus | |
| MATH 250 | Ordinary Differential Equations | |
| MATH 251 | Ordinary and Partial Differential Equations | |
| MATH 310 | Elementary Combinatorics | |
| MATH 311W | Concepts of Discrete Mathematics | |
| MATH 312 | Concepts of Real Analysis | |
| Supporting Courses and Related Areas | | |
| <i>Supporting Courses and Related Areas: Require a grade of C or better</i> | | |
| Select 6 credits of 400-level MATH courses | | 6 |
| Select 6 credits from 400-level Mathematics Applications courses ¹ | | 6 |

¹ Mathematics Applications Courses: Through consultation with the coordinator of the minor, courses from areas that directly incorporate or support the use of mathematics will be selected. Typical areas include computer science, engineering, physics, and statistics. See divisional list of acceptable courses.