

## Two-Year Course Cycle Department of Mathematics 2023 - 2025

Department of Mathematics <https://www.plu.edu/math/>

Academic Advising [www.plu.edu/academic-advising](http://www.plu.edu/academic-advising)

Course Catalog <http://www.plu.edu/catalog>

Class Schedule <https://bss.plu.edu/>

This two-year course cycle is intended to assist students in planning their academic program. It also allows the department to anticipate staffing needs. It is subject to change without notice. This is not a contract or guarantee that any specific course will be offered precisely as listed. All course offerings depend on such things as the university budget, instructor availability, and enrollment. Should a substitute course be deemed necessary, a reasonable effort will be made to ensure the new course will continue to fulfill the same major requirement or general education element as the original course. This course cycle does not anticipate possible scheduling conflicts that may arise. Students are expected to meet up with their advisor at least once per semester when planning their pathway to success at PLU, and this course cycle is not a substitute for that expectation. The Class Schedule on Banner Web (<https://bss.plu.edu/>) provides the most up-to-date course information.

| <b>2023-2024 Academic Year - Department of Mathematics</b> |   |                 |                   |                   |                  |   |
|--|---|-----------------|-------------------|-------------------|------------------|---|
| Course   | Course Title                                | # Fall Sections | # J-Term Sections | # Spring Sections | Total # Sections | Multi-Disciplinary Program courses taught by the department [please specify which program(s)] |
| MATH 105   | Mathematics of Personal Finance             | 0               | 0                 | 2                 | 2                |   |
| MATH 107   | Mathematical Explorations                   | 0               | 1                 | 0                 | 1                |   |
| MATH 115   | College Algebra and Trigonometry            | 2               | 0                 | 1                 | 3                |   |
| MATH 123   | Modern Elementary Math I                    | 1               | 0                 | 1                 | 2                |   |
| MATH 124   | Modern Elementary Math II                   | 1               | 0                 | 0                 | 1                |   |
| MATH 128   | Linear Models and Calculus, An Introduction | 2               | 0                 | 1                 | 3                |   |
| MATH 140   | Precalculus                                 | 1               | 0                 | 1                 | 2                |   |
| MATH/STAT 145  | Statistics for Biologists                   | 0               | 0                 | 1                 | 1                |   |
| MATH 151   | Introduction to Calculus                    | 2               | 0                 | 2                 | 4                |   |
| MATH 152   | Calculus II                                 | 1               | 0                 | 1                 | 2                |   |
| MATH/STAT 242  | Introduction to Mathematical Statistics     | 2               | 0                 | 0                 | 2                |   |
| MATH 245   | Discrete Structures                         | 0               | 0                 | 1                 | 1                |   |
| MATH 253   | Multivariable Calculus                      | 1               | 0                 | 1                 | 2                |   |
| MATH 317   | Introduction to Proof in Mathematics        | 0               | 0                 | 0                 | 0                |   |

|               |   |   |   |   |   |              |
|---------------|---|---|---|---|---|--------------|
| MATH 318      | Introduction to Proof in Mathematics: Combinatorics | 0 | 1 | 0 | 1 |              |
| MATH 319      | Introduction to Proof in Mathematics: Geometry      | 0 | 0 | 1 | 1 |              |
| MATH 331      | Linear Algebra                                      | 2 | 0 | 1 | 3 |              |
| MATH/STAT 342 | Probability and Statistical Theory                  | 0 | 0 | 1 | 1 |              |
| MATH/STAT 348 | Statistical Computing and Consulting                | 0 | 0 | 1 | 1 | Data science |
| MATH 351      | Differential Equations                              | 1 | 0 | 0 | 1 |              |
| MATH 356      | Numerical Analysis                                  | 0 | 0 | 1 | 1 |              |
| MATH 422      | Mathematical modeling                               | 1 | 0 | 0 | 1 |              |
| MATH 433      | Abstract Algebra                                    | 1 | 0 | 0 | 1 |              |
| MATH 446      | Mathematics in the Secondary School                 | 0 | 0 | 0 | 0 |              |
| MATH 455      | Mathematical Analysis                               | 0 | 0 | 1 | 1 |              |
| MATH 480      | Topics in Mathematics                               | 0 | 0 | 0 | 0 |              |
| MATH 499A     | Capstone: Senior Seminar I (SR)                     | 1 | 0 | 0 | 1 |              |
| MATH 499B     | Capstone: Senior Seminar II (SR)                    | 0 | 0 | 1 | 1 |              |
| STAT 231      | Introductory Statistics                             | 3 | 1 | 2 | 6 |              |
|               |   |   |   |   |   |              |

### 2024-2025 Academic Year - Department of Mathematics

| Course        | Course Title                                | # Fall Sections | # J-Term Sections | # Spring Sections | Total # Sections | Multi-Disciplinary Program courses taught by the department [please specify which program(s)] |
|---------------|---|-----------------|-------------------|-------------------|------------------|---|
| MATH 105      | Mathematics of Personal Finance             | 0               | 0                 | 2                 | 2                |   |
| MATH 107      | Mathematical Explorations                   | 0               | 1                 | 0                 | 1                |   |
| MATH 115      | College Algebra and Trigonometry            | 2               | 0                 | 1                 | 3                |   |
| MATH 123      | Modern Elementary Math I                    | 0               | 0                 | 1                 | 1                |   |
| MATH 124      | Modern Elementary Math II                   | 1               | 0                 | 0                 | 1                |   |
| MATH 128      | Linear Models and Calculus, An Introduction | 2               | 0                 | 1                 | 3                |   |
| MATH 140      | Precalculus                                 | 1               | 0                 | 1                 | 2                |   |
| MATH/STAT 145 | Statistics for Biologists                   | 0               | 0                 | 1                 | 1                |   |
| MATH 151      | Introduction to Calculus                    | 2               | 0                 | 2                 | 4                |   |

|               |   |   |   |   |   |                    |
|---------------|---|---|---|---|---|--------------------|
| MATH 152      | Calculus II   | 1 | 0 | 1 | 2 |                    |
| MATH/STAT 242 | Introduction to Mathematical Statistics             | 2 | 0 | 0 | 2 |                    |
| MATH 245      | Discrete Structures                                 | 0 | 0 | 1 | 1 |                    |
| MATH 253      | Multivariable Calculus                              | 1 | 0 | 1 | 2 |                    |
| MATH 317      | Introduction to Proof in Mathematics: Number Theory | 1 | 0 | 0 | 1 |                    |
| MATH 318      | Introduction to Proof in Mathematics: Combinatorics | 0 | 0 | 0 | 0 |                    |
| MATH 319      | Introduction to Proof in Mathematics: Geometry (NS) | 0 | 0 | 1 | 1 |                    |
| MATH 331      | Linear Algebra (NS)                                 | 2 | 0 | 1 | 3 |                    |
| MATH/STAT 342 | Probability and Statistical Theory                  | 0 | 0 | 0 | 0 |                    |
| MATH/STAT 348 | Statistical Computing and Consulting                | 0 | 0 | 1 | 1 | Data science minor |
| MATH 351      | Differential Equations (NS)                         | 0 | 0 | 0 | 0 |                    |
| MATH 356      | Numerical Analysis (NS)                             | 0 | 0 | 0 | 0 |                    |
| MATH 433      | Abstract Algebra                                    | 1 | 0 | 0 | 1 |                    |
| MATH 446      | Mathematics in the Secondary School                 | 1 | 0 | 0 | 1 |                    |
| MATH 455      | Mathematical Analysis                               | 0 | 0 | 1 | 1 |                    |
| MATH 480      | Topics in Mathematics                               | 0 | 0 | 1 | 1 |                    |
| MATH 499A     | Capstone: Senior Seminar I (SR)                     | 1 | 0 | 0 | 1 |                    |
| MATH 499B     | Capstone: Senior Seminar II (SR)                    | 0 | 0 | 1 | 1 |                    |
| STAT 231      | Introductory Statistics                             | 3 | 1 | 2 | 6 |                    |

