

B.S. in Mathematics

69 MATH Credits; 180 Total Credits Required for Graduation

This information is to be used for planning. Check your Degree Audit Reporting System (DARS) or meet with an advisor to ensure you have met all degree requirements.

Minimum admissions requirements: MATH 124, MATH 125, MATH 126, MATH 300 (or MATH 134, MATH 135, MATH 136), with a minimum 2.0 grade in each of these courses and an overall minimum 2.50 GPA in all mathematics courses. Completion of these requirements does not guarantee admission.

Calculus Sequence (15 credits)

- MATH 124 (5cr) – Calculus I
- MATH 125 (5cr) – Calculus II
- MATH 126 (5cr) – Calculus III

Core Requirements (18 credits)

- MATH 207 (3cr) – Differential Equations
- MATH 208 (3cr) – Matrix Algebra
- MATH 224 (3cr) – Advanced Multivariable
- MATH 300 (3cr) – Mathematical Reasoning
- MATH 327 (3cr) – Intro Real Analysis
- MATH 424 (3cr) – Concepts of Analysis

Advanced Mathematics and Electives (36 credits)

- 2 three-quarter sequences
OR
- 3 two-quarter sequences

Total of 6 courses; 5 courses if completing Concepts of Analysis.

Complete at least 1 sequence from items 1-4.¹

- 1. Modern Algebra – 402 / 403 / 404**
- 2. Concepts of Analysis – 425 / 426**
- 3. Topology & Geometry – 441 / 442 / 443**
- 4. Complex Analysis – 427 / 428**
5. Optimization – 407 / 408 / 409
6. Combinatorics – 461 / 462
7. Numerical Analysis – 464 / 465
8. Probability – 491 / 492 or 493

- Mathematical Electives²

6-7 MATH courses at the 300- or 400-level.
BS MATH majors can apply up to two of the following courses from one other department towards the Math major electives:

AMATH: 383 / 402 / 403
CSE: 373 or 332 / 374 or 333 / 417 or 421
ECON: 400 / 424 / 484
E E: 416 / 418
PHYS: 321 / 322 / 324
PHIL: 470 / 471 / 472

¹**Sequence recommendations:** Items “1” and “2” are generally expected for graduate study in mathematics. Items “3” and “4” are recommended for PhD programs in pure mathematics. Alternative combinations may be preferred for graduate study in other areas of the mathematical sciences and for industry careers.

²**MATH course restrictions:**

- Excluding MATH 397-399, 411, 412, 444, 445, 497-499.
- No more than two special topic MATH courses numbered 380 or 480.

Continuation Satisfactory Progress Policy

To maintain good academic standing within the Department of Mathematics, students must maintain a minimum major GPA of 2.0 and earn a numerical grade of a 2.0 or higher in all courses that could be applied towards the Math major requirements. Students must also complete at least one course towards the major requirements each quarter they enroll, with the exception of summer quarter.

COURSE PLANNER

Advising recommendation: No more than two math courses per quarter.

Autumn 20____		Winter 20____		Spring 20____		Summer 20____	
Credit Total		Credit Total		Credit Total		Credit Total	

Autumn 20____		Winter 20____		Spring 20____		Summer 20____	
Credit Total		Credit Total		Credit Total		Credit Total	

Autumn 20____		Winter 20____		Spring 20____		Summer 20____	
Credit Total		Credit Total		Credit Total		Credit Total	

Autumn 20____		Winter 20____		Spring 20____		Summer 20____	
Credit Total		Credit Total		Credit Total		Credit Total	

Math Student Guide: <https://math.washington.edu/math-student-guide>

- **Course Offerings and Planning**
- **Departmental Honors & Senior Thesis**
- **Graduation Application**
- **Satisfactory Progress Policy**
- **Special Offerings (MATH 380 & MATH 480 special topics)**
- **Transfer Credit Evaluations**
- **Washington Directed Reading Program (WDRP)**
- **Washington Experimental Mathematics Lab (WXML)**