

## B.S. in Mathematics

**69 MATH Credits; 180 Total Credits Required for Graduation**

**Requirements effective Autumn 2018:** This information is to be used for planning. Always check your DARS report to ensure you have met all degree requirements.

### Calculus Sequence (15 credits)<sup>1</sup>

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

<sup>1</sup>*Admissions requirement: Students must earn a minimum of 2.0 in each of MATH 124, 125 and 126 with a 2.5 or higher average in all MATH courses. Completion of these requirements does not guarantee admission.*

### Core Requirements (18 credits)<sup>2</sup>

- MATH 300 (3cr) – Mathematical Reasoning
- MATH 307 (3cr) – Differential Equations
- MATH 308 (3cr) – Matrix Algebra
- MATH 324 (3cr) – Advanced Multivariable
- MATH 327 (3cr) – Intro Real Analysis I
- ~~MATH 328 (3cr) – Intro Real Analysis II~~
- MATH 424 (3cr) – Concepts of Analysis<sup>2</sup>

<sup>2</sup>*Recommended in place of MATH 328. If MATH 424 is used for an Advanced Core Sequence, an alternative upper-division MATH course will need to be completed.*

### Advanced Core Sequence Requirements (18 credits)<sup>3</sup>

Must complete at least 1 sequence from items a-d,

- 2 three-quarter sequences  
or
- 3 two-quarter sequences
  - a) Modern Algebra – 402 / 403 / 404
  - b) Concepts of Analysis – 424 / 425 / 426
  - c) Complex Analysis – 427 / 428
  - d) Topology & Geometry – 441 / 442 / 443
  - e) Optimization – 407 / 408 / 409
  - f) Combinatorics – 461 / 462
  - g) Numerical Analysis – 464 / 465
  - h) Probability – 491 / 492

#### <sup>3</sup>Sequence recommendations:

*Items “a” and “b” are generally expected for graduate study in mathematics. Items “c” and “d” 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.*

### Major Electives (18 credits)<sup>4</sup>

- 6 MATH courses at the 300- or 400-level; two of the six courses can be taken in another department with advisor approval.

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#### <sup>4</sup>MATH course restrictions:

- Excluding MATH 398, 399, 411, 412, 444, 445, 497, 498, 499.
- No more than two special topic MATH courses numbered 380 or 480.

# COURSE PLANNER

## Continuation Policy

To maintain good academic standing within the Department of Mathematics, students must maintain a minimum major GPA of 2.0 and earn at a numerical grade of a 2.0 or higher in all courses used 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.

**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	

## Course Registration Resources

**When are MATH courses typically offered:** [math.washington.edu/annual-course-overview](http://math.washington.edu/annual-course-overview)

**Course descriptions & prerequisites:** [washington.edu/students/crscat/math.html](http://washington.edu/students/crscat/math.html)

**Registration Time Schedules:** [www.washington.edu/students/timeschd/](http://www.washington.edu/students/timeschd/)

**Undergraduate Special Topics MATH 380/480:** [math.washington.edu/special-offerings](http://math.washington.edu/special-offerings)

**Washington Experimental Mathematics Lab (WXML):**  
[math.washington.edu/events/series/washington-experimental-mathematics-lab](http://math.washington.edu/events/series/washington-experimental-mathematics-lab)

**Washington Directed Reading Program (WDRP):** [sites.uw.edu/wdrp/](http://sites.uw.edu/wdrp/)

**Career Planning:** [math.washington.edu/career-planning](http://math.washington.edu/career-planning)