B.S. in Mathematics

69 MATH Credits; 180 Total Credits Required for Graduation

Requirements effective Autumn 2021: 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)¹

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

¹ 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)²

☐ 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 I
☐ MATH 424 (3cr) – Concepts of Analysis²

² 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)³

☐ 2 three-quarter sequences
or
☐ 3 two-quarter sequences

Complete at least 1 sequence from items a-d.

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

³ 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)⁴

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

☐ ☐ ☐ ☐ ☐ ☐

☐ ☐ ☐ ☐ ☐ ☐

☐ ☐ ☐ ☐ ☐ ☐

⁴ 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.

<table>
<thead>
<tr>
<th>Autumn 20____</th>
<th>Winter 20____</th>
<th>Spring 20____</th>
<th>Summer 20____</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit Total</td>
<td>Credit Total</td>
<td>Credit Total</td>
<td>Credit Total</td>
</tr>
</tbody>
</table>

Course Registration Resources

- When are MATH courses typically offered: math.washington.edu/annual-course-overview
- Course descriptions & prerequisites: washington.edu/students/crscat/math.html
- Registration Time Schedules: www.washington.edu/students/timeschd/
- Undergraduate Special Topics MATH 380/480: math.washington.edu/special-offerings
- Washington Directed Reading Program (WDRP): sites.uw.edu/wdrp/