PROPOSED CATALOG COPY

Bachelor of Arts

~~*Suggested First- and Second-Year College Courses:* MATH 124, MATH 125, MATH 126, or MATH 134, MATH 135, MATH 136.~~

Department Admission Requirements

Admission Requirements for Standard Option and Philosophy Option:
A minimum grade of 2.0 in the following courses: MATH 124, MATH 125, and MATH 126 (or MATH 134, MATH 135, and MATH 136); **a minimum cumulative GPA of 2.20 in these courses.**

Admission Requirements for Teacher Preparation Option:

A minimum grade of 2.0 in MATH 124, MATH 125, and MATH 126 (or MATH 134, MATH 135, and MATH 136 **; a minimum cumulative GPA of 2.50 in these courses.**

Major Requirements

Standard Option (50 credits):

1. MATH 124, MATH 125, and MATH 126 (or MATH 134, MATH 135, and MATH 136); MATH 307; MATH 308; MATH 324; and 26 additional credits at the 300 level and above.

2. A minimum grade of 2.0 must be obtained in all ~~mathematics~~ courses presented to satisfy the mathematics- major requirements ~~and in required related courses~~. A **minimum cumulative** GPA of 2.00 or higher must be obtained in all courses taken for ~~the~~ major requirements at the UW.

3. At least 18 credits of graded mathematics courses numbered 300 or higher must be taken in residence at the UW.

Philosophy Option (58 credits):

1. MATH 124, MATH 125, MATH 126 (or MATH 134, MATH 135, MATH 136); MATH 300, MATH 308, MATH 327, MATH 328; five additional mathematics courses at the 300 or 400 level, including at least one two-quarter sequence at the 400 level other than MATH 407, MATH 408, MATH 409, or MATH 421, MATH 422

2. PHIL 120 or an upper-level course in logic; PHIL 100, PHIL 160, or PHIL 240; one philosophy course at the 300 level; one philosophy course at the 400 level

3. A minimum grade of 2.0 must be obtained in all courses presented to satisfy the mathematics major requirements. A **minimum cumulative** GPA of 2.00 or higher must be obtained in all courses taken for major requirements at the UW.

4. At least 18 credits of graded mathematics courses numbered 300 or higher must be taken in residence at the UW.

Teacher Preparation Option (52-59 credits):

1. MATH 124, MATH 125, and MATH 126 (or MATH 134, MATH 135, and MATH 136); MATH 300; MATH 307; MATH 308; MATH 394, MATH 411, MATH 412, MATH 444, MATH 445; either STAT 311, MATH 390/STAT 390, or Q SCI 381; 15 credits of approved electives at the 300 level in MATH, AMATH, or STAT, or PHYS 407, PHYS 408, and PHYS 409. At least 6 credits of electives must be from the Mathematics Department.

2. A minimum grade of **2.0** must be obtained in all courses presented to satisfy the mathematics major requirements. A **minimum cumulative** GPA of 2.50 or higher must be obtained in all courses taken for major requirements at the UW.

3. At least 18 credits of graded mathematics courses numbered 300 or higher taken in residence at the UW.

Bachelor of Science

~~*Suggested First- and Second-Year College Courses:* MATH 124, MATH 125, and MATH 126, or MATH 134, MATH 135, and MATH 136.~~

Department Admission Requirements

Standard Option

A minimum grade of 2.0 in the following courses: MATH 124, MATH 125, and MATH 126 (or MATH 134, MATH 135, and MATH 136); a minimum cumulative **GPA of 2.20 in these courses.**

Comprehensive Option

A minimum grade of 2.0 in the following courses: MATH 124, MATH 125, and MATH 126 (or MATH 134, MATH 135, and MATH 136); a minimum cumulative **GPA of 2.50 in these courses.**

Major Requirements

Standard Option (66 credits):

1. *Elementary Mathematics Core (21 credits):* MATH 124, MATH 125, and MATH 126 (5, 5, 5); MATH 300 (3); MATH 324 (3). (MATH 134, MATH 135, and MATH 136 may be substituted for MATH 124, MATH 125, and MATH 126, MATH 307, and MATH 308.)
2. *Intermediate Mathematics Core (12 credits):* MATH 308 (3); MATH 326, MATH 327, MATH 328 (3, 3, 3). (MATH 334, MATH 335, MATH 336 may be substituted for MATH 309, MATH 300, MATH 324, MATH 326, MATH 327, MATH 328 and MATH 427.)
3. *Advanced Mathematics Core (21 credits):* At least seven courses from the following, from at least three different areas, and including at least two two-quarter sequences:
   - *Algebra:* MATH 402, MATH 403, MATH 404 (3, 3, 3).
   - *Analysis:* MATH 424, MATH 425, MATH 426 (3, 3, 3).
   - *Geometry:* MATH 441, MATH 442, MATH 443 (3, 3, 3).
   - *Other Analysis:* MATH 307, MATH 309 (3, 3); MATH 427, MATH 428 (3, 3).
   - *Probability:* MATH 394, MATH 395, MATH 396 (3, 3, 3); MATH 491, MATH 492 (3, 3).
   - *Other Mathematics:* MATH 381 (3); MATH 407, MATH 408, MATH 409 (3, 3, 3); MATH 461, MATH 462 (3, 3); MATH 464, ~~MATH 465 and MATH 466~~(3).
4. *Electives (12 credits):* Four additional mathematics courses, including a two-quarter sequence at the 300- or 400-level (teacher-preparation courses not allowed). With approval, two of the four courses may be chosen from appropriate courses offered by the departments of Applied

Mathematics, Statistics, and Computer Science, or from certain other departments. Courses from the additional mathematics core sequences not used to fulfill core requirements can be used to fulfill the elective requirement.

5. A minimum grade of 2.0 must be obtained in all courses presented to satisfy the mathematics major requirements. A **minimum cumulative** GPA of 2.00 or higher in all courses taken for major requirements at the UW.

6. At least 18 credits from courses at the 300-level or higher taken in residence at the UW.

Comprehensive Option (69 credits):
~~Emphasizes the fundamental subjects of algebra, analysis, and geometry and is designed to provide a deep understanding of these basic areas of modern mathematics. It lays a good foundation for more advanced study. For this option, the grade, elementary core, and elective requirements remain unchanged, with the same substitutions permitted from the accelerated/honors sequences. (Items 1, 2, 3, and 6 shown for the standard option, above.)~~

1. *Elementary Mathematics Core (21 credits):* MATH 124, MATH 125, and MATH 126 (5, 5, 5); MATH 300 (3); MATH 324 (3). (MATH 134, MATH 135, and MATH 136 may be substituted for MATH 124, MATH 125, and MATH 126, MATH 307, and MATH 308.)

2. *Intermediate Mathematics Core (12 credits):* MATH 308 (3); MATH 326, MATH 327, MATH 328 (3, 3, 3). (MATH 334, MATH 335, MATH 336 may be substituted for MATH 309, MATH 300, MATH 324, MATH 326, MATH 327, MATH 328 and MATH 427.)

3. *Advanced Mathematics Core, Comprehensive Option (24 credits):* At least eight courses from the following, including at least two in each of the first three areas. If only six courses are chosen from the first three areas, then the two courses chosen from the fourth area must form a two-quarter sequence:
    a. *Algebra:* MATH 402, MATH 403, MATH 404 (3, 3, 3).
    b. *Analysis:* MATH 424, MATH 425, MATH 426 (3, 3, 3).
    c. *Geometry:* MATH 441, MATH 442, MATH 443 (3, 3, 3).
    d. *Other Analysis:* MATH 307, MATH 309 (3, 3); MATH 427, MATH 428 (3, 3).

4. *Electives (12 credits):* Four additional mathematics courses, including a two-quarter sequence at the 300- or 400-level (teacher-preparation courses not allowed). With approval, two of the four courses may be chosen from appropriate courses offered by the departments of Applied Mathematics, Statistics, and Computer Science, or from certain other departments. Courses from the additional mathematics core sequences not used to fulfill core requirements can be used to fulfill the elective requirement.

5. A minimum grade of **2.0** must be obtained in all courses presented to satisfy the mathematics major requirements. A **minimum cumulative** GPA of 2.50 or higher must be obtained in all courses taken for major requirements at the UW.

6. At least 18 credits from courses at the 300 –level or higher, taken in residence at the UW.

Criteria for Satisfactory Progress

BS Comprehensive and BA Teacher Preparation students making normal departmental progress must maintain a minimum cumulative major GPA of 2.50 and a minimum grade of 2.0 for individual courses required for the major.

BS Standard, BA Standard and BA Philosophy students making normal departmental progress must maintain a minimum cumulative major GPA of 2.00 and a minimum grade of 2.0 for individual courses required for the major.

1. Students are expected to make satisfactory progress towards graduation with a degree in Mathematics.

   Under normal circumstances,a Mathematics major would be considered making satisfactory progress if she/he is taking at least one math class each quarter and completing program requirements after declaring the major. Lack of academic progress may be evident by low scholarship,course drops, repeats, withdrawals or cancellations.

   2. Students making normal departmental progress must maintain a minimum cumulative major GPA of 2.00 or 2.50 depending on which option they are pursuing and a minimum grade of 2.0 for individual courses required for the major.

   3. Students must maintain good academic standing with the University of Washington. Students must maintain a minimum cumulative GPA of 2.0 to be in good standing with the University. Students falling below a cumulative GPA of 2.0 will be placed on the University's low Scholarship list.