### Math Major Checklist

**NOTE:** All 300-400 level courses must be taken for a letter grade to satisfy the major requirements

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**Basic requirements for a mathematics major:**

1. [ ] MATH 253 (Calculus III). Calculus I and II are required to take MATH 253. There are several calculus series.
2. [ ] MATH 281 (Multivariable Calculus I).
3. [ ] One of the following two-term sequences (Bridge Requirement):
   - MATH 307 and four MathLabs (MATH 201 – 206)
   - MATH 231 and 232 and two MathLabs
   - MATH 261 and 262 and two MathLabs
4. [ ] MATH 341 (Linear Algebra I)
5. [ ] One of the following computer programming courses:
   - [ ] CIS 122
   - [ ] CIS 210
   - [ ] Other approved course

**60 credits are required for a math major**

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**Option 1: Standard track**

1. [ ] All requirements in the “Basic requirements” section above
2. [ ] MATH 282 (Multivariable Calculus II)
3. [ ] MATH 342 (Linear Algebra II)
4. [ ] One of the following two-term sequences:*  
   - MATH 316 and 317 (Fundamentals in Analysis I, II)
   - MATH 347 and 348 (Fundamentals in Number Theory I, II)
   - MATH 391 and 392 (Fundamentals in Algebra I, II)
5. [ ] [ ] [ ] [ ] Four upper-division math courses, including at least one two-term sequence. None of these courses can overlap with any other requirement.

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<th>MATH 320</th>
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*For those completing MATH 261, 262, and 263 with grades of C or better the department will waive this requirement.
Option 2: Pure track

1. ☐ All requirements in the “Basic requirements” section above
2. ☐ MATH 282 (Multivariable Calculus II)
3. ☐ MATH 342 (Linear Algebra II)
4. ☐ MATH 316 AND 317 (Analysis requirement)*
5. ☐ One of the following (Algebra requirement):
   a. MATH 391 and 392
   b. MATH 444 and 445
6. ☐ ☐ Two upper-division math courses. None of these courses can overlap with any other requirement:

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*For those completing MATH 261, 262, and 263 with grades of C or better the department will waive this requirement.

Option 3: Secondary education track

1. ☐ All requirements in the “Basic requirements” section above
2. ☐ MATH 343 (Introduction to Statistics)
3. ☐ ☐ Two of the following sequences:
   a. MATH 316 and 317 (Fundamentals in Analysis I, II)*
   b. MATH 347 and 348 (Fundamentals in Number Theory I, II)
   c. MATH 391 and 392 (Fundamentals in Algebra I, II)
4. ☐ MATH 394 and 395
5. ☐ MATH 397

*For those completing MATH 261, 262, and 263 with grades of C or better the department will waive this part of the requirement.