**DEGREE REQUIREMENTS CHECKLIST**

This degree is a good option for students who wish to take the less challenging abstract courses or who wish to take many hours outside mathematics.

This checklist below provides a summary of the requirements for the degree and major indicated above. For complete information, you should consult the 2008-2010 Undergraduate Catalog. If you have any questions, please speak with an academic advisor at RLM 4.101.

**REQUIRED COURSES: ALL REQUIRED COURSES MUST BE TAKEN ON A LETTER-GRADE BASIS.**

*Note: where applicable see attached Core Curriculum List*

- **Communication and Humanities:**
  - RHE 306
  - E 316K

- **Substantial Writing Component:**
  - One upper-division course
  - One additional course

  *Must “contain a substantial writing component” one course must be 3 credit hours not counting toward the University core requirement. Note: writing courses may be used simultaneously to satisfy other degree requirements.*

- **Foreign Language:**
  - Fourth semester proficiency in a single foreign language at the college level
  - [ ]

- **U.S. Government* and U.S. History:**
  - GOV 310L
  - GOV 312L
  - U.S. History ________
  - U.S. History ________

  *Other approved combinations: GOV 310L & GOV 3TZ; GOV 310L & GOV 3US; GOV 3TX & GOV 3US.*

  See attached 08-10 Core Curriculum List for options to fulfill American history requirement.

- **Social Sciences:**
  - 6 hours from two (different) areas:
    - [ ]

- **Visual & Performing Arts (GENERAL CULTURE):**
  - 6 hours
    - [ ] 3 hrs from 08-10 Core Curriculum List
    - [ ] 3 hrs from Anthropology, Economics, Geography, Linguistics, Psychology, Sociology ________

- **Natural Sciences:**
  - 6 hrs in Mathematics (Courses taken for the major will fulfill this requirement)
  - [ ]
  - 6 hrs in the same discipline selected from Core Curriculum List
  - [ ]
  - 6 additional hrs from Astronomy, Biology, Chemistry, Geology, Marine Science, Nutrition, Physical Sciences, Physics, Mathematics*, Computer Sciences, Statistics/Scientific Computation
  - [ ]

  *only 3 of the 6 hours may be Mathematics*

**MAJOR REQUIREMENTS: ALL MAJOR REQUIREMENTS MUST BE TAKEN ON A LETTER-GRADE BASIS. A GRADE OF C OR BETTER IS REQUIRED IN ALL MATH COURSES COUNTING TOWARDS THE MAJOR.**

- M 408C Differential & Integral Calculus*
- M 408D Sequence, Series & Multivariable Calculus*
  *Or an equivalent calculus sequence (i.e., M 408K, M 408L, M 408M)*
- M 341 (M340L, if already taken for other degree) Linear Algebra & Matrix Theory (Matrices and Matrix Calculations)
- M 361K or M 365C Introduction to Analysis or Real Analysis
- M 362K Probability I

- One of the following:
  - M 328K Introduction to Number Theory
  - M 343K Introduction to Algebraic Structures


- A minimum of 24 semester hours upper-division math courses.
- No more than 36 semester hours of mathematics coursework can count toward the degree.
## SAMPLE COURSE PLAN

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 408C</td>
<td>M 408D</td>
<td>1 Refer to attached core curriculum list.</td>
</tr>
<tr>
<td>RHE 306</td>
<td>Visual &amp; Performing Arts core(^1) (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>Foreign language (506)</td>
<td>Foreign language (507)</td>
<td></td>
</tr>
<tr>
<td>Elective (3 hrs)</td>
<td>Elective (3 hrs)</td>
<td>2 This course is recommended before taking M 362K and M 341.</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>M325K(^2)</td>
<td>M 341</td>
<td>3 Elective Math course from specified list.</td>
</tr>
<tr>
<td>E 316K</td>
<td>Foreign language (312L)</td>
<td>4 12 semester hours must be upper division unless other area requirements are being met with upper division courses.</td>
</tr>
<tr>
<td>Foreign language (312K)</td>
<td>Social Science core(^1) (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>General Culture requirement (3 hrs)</td>
<td>Natural Science requirement(^1) (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>Natural Science requirement(^1) (3 hrs)</td>
<td>Elective (3 hrs)</td>
<td></td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>NOTES</th>
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</thead>
<tbody>
<tr>
<td>M 362K</td>
<td>Upper division Math(^3) (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>GOV 310L</td>
<td>M 328K or M 343K or M 373K</td>
<td></td>
</tr>
<tr>
<td>Natural Science requirement(^1) (3 hrs)</td>
<td>US History requirement(^3) (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>Elective (3 hrs)</td>
<td>Social Science requirement (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>Elective (3 hrs)</td>
<td>Elective (3 hrs)</td>
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</table>

### SENIOR YEAR

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<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 361K or M 365C</td>
<td>Upper division Math (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>Upper division Math (3 hrs)</td>
<td>U.S. History requirement(^3) (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>GOV 312L</td>
<td>Elective (3 hrs)</td>
<td></td>
</tr>
<tr>
<td>Elective (3 hrs)(^4)</td>
<td>Elective (3 hrs)(^4)</td>
<td></td>
</tr>
<tr>
<td>Elective (3 hrs)(^4)</td>
<td>Elective (3 hrs)(^4)</td>
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</tr>
</tbody>
</table>

### ELECTIVES

- Electives are necessary to complete the **120-semester-hour requirement** for the B.A. in Mathematics.
- Once 30 hours of college credit is earned, up to 16 semester hours of electives may be taken pass/fail.
- Only two courses per semester may be taken pass/fail.

### GENERAL DEGREE REQUIREMENTS:

- Minimum cumulative UT GPA of 2.0.
- **60 semester hours must be completed in residence (in the classroom at UT).**
- 24 of the last 30 semester hours counted toward the degree must be in residence.
- 18 semester hours of the major must be completed in residence.
- 6 upper-division semester hours of the major must be in residence.
- 18 upper-division semester hours must be completed in residence.
- 36 upper-division semester hours are required.
- 12 semester hours of coursework toward the major must be upper-division.
- No more than 36 semester hours from one subject in the College of Natural Sciences or Liberal Arts may be counted.
- No more than 36 semester hours from one college outside Liberal Arts or Natural Sciences may be counted.

The following courses **will not count** toward this degree: M301, M 302, M 303D, M 304E, M 403K, M 403L, M 305G, M 316, M 316K, M 316L, M 360K, M 378S (or equivalent courses), KIN 119 or PED one-hour activity courses. No more than 12 semester hours of Bible coursework may be counted toward the degree. See catalog for restrictions about using ROTC coursework.

Link to Interactive Degree Audit

http://www.utexas.edu/student/registrar/ida

\(^1\) M 305G

\(^2\) M 325K may be replaced with other course, such as M 362K.

\(^3\) M 362K and M 341 may be taken in any order.

\(^4\) Electives

\(^5\) Upper division Math course from specified list.

\(^6\) 12 semester hours must be upper division unless other area requirements are being met with upper division courses.

\(^7\) Substantial writing component courses have not been specified since these may satisfy other degree requirements.

\(^8\) Sequence of upper division math courses should be chosen in consultation with a faculty advisor.