Baccalaureate Degree (Minimum 122 Credits)  
Worksheet for MATHEMATICS, B.S.

**COMMON CORE:** 15 Credits
- Analytical Reading/Writing: WRT102
- Academic Writing: WRT202
- Human Communication: CM104
- Calculus I: MAT171
- Physical Education (2 crs.)

**AREA DISTRIBUTION REQUIREMENTS:** 42 Credits

<table>
<thead>
<tr>
<th>I. Fine Arts &amp; Humanities</th>
<th>6 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. Social &amp; Behav. Sciences</th>
<th>6 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>III. Laboratory Sciences</th>
</tr>
</thead>
</table>

**SATISFIED BY MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>IV. Amer./West. Civ., Amer. Gov't.</th>
<th>6 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>V. Int'l. Studies/Foreign Lang.</th>
<th>6 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES:** 20 Credits

**REQUIRED MAJOR COURSES:** 63 Credits

- Each of the following: (44 Credits)
  - Fund. of Computer Science I: CS101
  - Calculus I: MAT172
  - Linear Algebra I: MAT260
  - Calculus III: MAT271
  - Differential Equations: MAT272
  - Math Structures: MAT280
  - Linear Algebra II: MAT360
  - Abstract Algebra I: MAT361
  - Abstract Algebra II: MAT362
  - Elementary Analysis I: MAT371
  - Elementary Analysis II: MAT372
  - Mathematics Seminar: MAT493
  - Engineering Physics: PHY160

**MATH ELECTIVES:** (15 Credits)

Choose five from the following:
- MAT320, MAT345, MAT350, MAT390, MAT391, MAT440, MAT470, MAT473, MAT477, MAT480, MAT490, MAT496

**SCIENCE ELECTIVES:** (4 Credits)

Choose one from the following:
- BIO150, BIO152, CHM122, CHM134, PHY162, PHY260 or PHY262

**The Physical Sciences Dept. has suggested the following career-oriented tracks:**

**Actuarial Track:**
- Financial Accounting: ACC220
- Micro Economics (ADR II): ECO200
- Managerial Finance I: FIN300
- or Managerial Finance: FIN330
- Risk Mgmt and Insurance: MBA572
- or Comp. and Benefits Systems: MBA567
- Probability and Statistics: MAT350

**Computational Track with Minor in Computer Sci.:**
- Fund. Computer Science II: CS201
- Analysis of Algorithms: CS360
- One course from the following:
  - CS320, CS340, CS370

**Government Track:**
- 12 credits of a Foreign Language of choice (6 credits fulfill ADR V)
- Intro to East Asia: INT144
- or Intro to Middle East: INT146
- Cryptology: MAT391
- Numerical Analysis: MAT470
- Math Internship: MAT490
- Reading and Research: MAT496

**Pure Math/Graduate School Track:**
- Numerical Analysis: MAT470
- Partial Differential Equations: MAT473
- Complex Analysis: MAT477
- Point-Set Topology: MAT480
- Reading and Research: MAT496

* A grade of "2.0" or better is required.
* All courses must be completed with a minimum "2.0" grade. Courses may not be taken on a pass/fail basis.
* A minimum of 12 credits of the Area Distribution Requirements must be at the 200-level or above. Courses may not be taken on a pass/fail basis. See Registrar's Office for official list of courses.
* Six credits are to be taken in one of these two areas; if foreign language is selected, six credits must be in one language.
* Requirements listed apply to students who matriculate into or declare this major during the 2013-2014 academic year.