## Bachelor of Science in Mathematical Sciences, Majoring in Statistics

**Catalogue 2017-2018**

**Student:** ____________________________  **Advisor:** ______________________________

**ID #:** ________________________________  **Date:** ________________________________

### CORE:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 21</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 22</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 121</td>
<td>Calculus III</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>or 122</td>
<td></td>
</tr>
<tr>
<td>CS 21</td>
<td>Computer Programming</td>
</tr>
<tr>
<td>STAT 201</td>
<td>Statistical Analysis Via Computer</td>
</tr>
<tr>
<td>STAT 141, 143 or 211</td>
<td>Statistical Methods or Statistics for Engrs.</td>
</tr>
<tr>
<td>STAT 151, 251</td>
<td>Applied Probability or Probability Theory</td>
</tr>
<tr>
<td>STAT 221</td>
<td>Statistical Methods I for Behavioral Sciences</td>
</tr>
<tr>
<td>STAT 241, 261</td>
<td>Statistical Inference or Statistical Theory I</td>
</tr>
</tbody>
</table>

**CREDITS:** 18

*Students may substitute an advisor-approved 200-level STAT course for the STAT 281/STAT 293 requirement.*

### MAJOR:

An additional 6 credits in STAT (must have a total of 24 STAT credits including core courses); at least 2 additional credits in MATH, STAT or CS numbered 100 or above (must have a total of 45 credits of MATH, STAT or CS including applicable core courses); a total of 18 credit hours of MATH, STAT, or CS must be numbered 200 or above (core courses can be used to fulfill this requirement); no more than 12 credit hours can be CS.

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</tr>
<tr>
<td>SPCH 011</td>
<td>Effective Speaking</td>
</tr>
</tbody>
</table>

**CREDITS:** 8-24

### ALLIED:

24 credit hours from Allied Fields (including at least one laboratory experience in science or engineering); at least 6 credits numbered 100 or above; at least 6 credits in fields 1 – 5.

### FIELDS:

Absolutely no courses from the ‘major courses’ above can be used to fulfill an allied field requirement.

<table>
<thead>
<tr>
<th>Field</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Physical Sciences</td>
<td></td>
</tr>
<tr>
<td>2. Biological Sciences</td>
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<tr>
<td>3. Medical Sciences</td>
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<tr>
<td>4. Engineering</td>
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<td>5. Computer Sci. (110 or higher)</td>
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<tr>
<td>6. Agricultural Sciences</td>
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<td>7. Business Administration</td>
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<td>8. Psychology</td>
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<td>9. Economics</td>
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<tr>
<td>10. Environmental Sciences/Studies</td>
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<td>11. Natural Resources</td>
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</tbody>
</table>

**CREDITS:** 24

### HSS:

English 001, Speech 011 plus 18 credit hours of HSS from categories I, II & III (for a total of 24 credit hours). At least 6 credit hours must be taken in at least 2 different categories.

#### Category I:

Arabic, Chinese, Classics, English, French, German, Greek, Hebrew, Italian, Japanese, Latin, Linguistics, Portuguese, Russian, Spanish, World Literature

#### Category II:

Art History, Dance, Film & Television Studies, Music, Philosophy, Religion, Speech, Studio Art, Theatre

#### Category III:

Anthropology, Communication Sciences & Disorders, Critical Race & Ethnic Studies, Economics, Gender, Sexuality, and Women’s Studies, Geography, Global and Regional Studies, History, Holocaust Studies, Human Development & Family Studies, Political Science, Psychology, Sociology, Vermont Studies

<table>
<thead>
<tr>
<th>Category I: Language &amp; Literature</th>
<th>ENGS 001</th>
<th>SPCH 011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Expression</td>
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<td></td>
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<td>Effective Speaking</td>
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<td></td>
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</tbody>
</table>

**CREDITS:** 24

Total credits required for graduation is 120, there are 90 credits defined above; including 6 credits to satisfy the University Diversity Requirement (3 credits from category D1 and 3 credits from either category D1 or D2). Students must also choose one course that meets the University's Sustainability requirement.