# The Bachelor of Science (B.S.)

## in Statistics and Data Science

For Catalog Year 2018

(for the B.A. plan, see the back of this page)

**THIS IS A SAMPLE PROGRAM. EACH STUDENT SHOULD CONSULT A DEPARTMENT ADVISOR TO PREPARE A PROGRAM THAT FITS HIS/HER INDIVIDUAL BACKGROUND AND ACADEMIC NEEDS.**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
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<tr>
<td>MATH 122A &amp; B or 125</td>
<td>5/3</td>
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<tr>
<td>ENGL 101 or 107 or 109H</td>
<td>3</td>
</tr>
<tr>
<td>Tier I INDV (150)</td>
<td>3</td>
</tr>
<tr>
<td>Second Language</td>
<td>4</td>
</tr>
<tr>
<td>Elective (First Year Colloquium)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
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<tr>
<td>16/14</td>
<td>17</td>
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| **Sophomore Year** |                 |
| MATH 223 | 4             |
| MATH 313 | 3             |
| Lab Science3 | 4             |
| Tier I TRAD (160) | 3             |
| Tier II Arts | 3             |
| **Total** | **Total** |
| 17 | 14 |

| **Junior Year** |                 |
| Statistical Computing (proposed) | 3             |
| MATH 464 | 3             |
| Minor Course† | 3             |
| Tier II Humanities | 3             |
| Elective Course | 3             |
| **Total** | **Total** |
| 15 | 15 |

| **Senior Year** |                 |
| Applied Linear Models (proposed) | 3             |
| Minor Courses† | 6             |
| Elective Courses | 6             |
| **Total** | **Total** |
| 15 | 11/13 |

This degree program requires at least 120 total units, including 42 upper division units (300-400 level)

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1. Application Courses Requirement: For the B.S. degree, students must complete at least 6 units of course work outside the Mathematics Department that require calculus I, statistics, or a higher mathematics course as a corequisite or prerequisite from this list: ABE 201, 284, 423, 428; ACBS 313; AME 472; ASTR 250; BIOC 462A, 462B, 466; BME 481B; CE 214; CHEM 161, 162, 325, 326, 404A, 480A, 480B; CSC 345, 422, 433, 436, 437, 445, 453, 460, 477; ECE 381A, 429; ECOL 302, 447; ECON 332, 361; ENGR 211C; ENV 420, 470; EPID 479; GEOG 463; GEOS 322, 356, 419, 432, 434A, 440, 466, 479; ISTA 321, 350, 421, 450; MCB 315, 416A, 480; MSE 345, 404, 415; NSCS 344, OPTI 201R; PHYS 140, 141, 142, 143, 161H, 162H, 240, 241, 261H; PSIO 303, 472; PTYS 407; RAM 456A; RNR 417, 473; SIE 250, 265, 422, 496; SOC 476; STAT 493; WFW 444; WSM 460A; or courses approved by your academic advisor.

2. This BS degree in Statistics is science-intensive. One of the following sequences of lab science courses is required to satisfy the Tier I General Education requirements: CHEM 141/143 & 142/144; CHEM 151 & 152; CHEM 161/163 & 162/164; MCB 181R/181L & ECOL 182R/182L; PHYS (141 or 161H) & (142 or 241 or 162H or 261H); GEOS 251 & (302 or 304); PSIO 201 & 202.

3. For major elective course options, see the major handbook, website, or an academic advisor.

4. To declare your minor, contact an advisor from the appropriate department.

5. Honors College Freshmen are required to take a 1 unit honors colloquium in their first semester.

NOTES: Second-semester proficiency in a second language is required for the BS degree. One Tier I or Tier II course may fulfill the Diversity requirement. See advisor if you have questions regarding the Mid-Career Writing Assessment requirement.