## CNAS B.S. BREADTH REQUIREMENTS

### DATA SCIENCE COURSEWORK

**Statistics Bachelor of Science (2021 Catalog to current)**

### Upper-Division Total Units 60 units

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Course Offerings</th>
<th>Units</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH009A</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ENGL001A</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CS105</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CS141</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH009B</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH009C</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT107 (147)</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT156A</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT156AB</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT156B</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT169 (Jr spring)</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT170</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT170</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT180</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT180</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>STAT183 or CS179 (E-Z)</td>
<td></td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**IMPORTANT NOTES:**

Please monitor course availability and prerequisites. For example, the STAT156AB series is typically offered once a year: STAT156A in fall, STAT156B in winter.

**Four courses (at least unique 16 units) from the following:**

- Four courses (at least unique 16 units) from the following:
  - CS166
  - CS167
  - CS170
  - CS180
  - BIO05A & 020
  - BIOL05A & 020
  - BUS103 & 115
  - BUS104 & 123
  - BUS124 & 125
  - BUS124 & 125
  - ECON108 & 136
  - EE142 & 146
  - GEO111 & 161
  - GEO115 & 147
  - MATHEMATICS (4 units minimum)
  - PHYSICAL SCIENCE (4 units minimum)
  - ETHNIC STUDIES (4 units minimum)
  - BIOLOGICAL SCIENCES (4 units minimum)
  - MATHEMATICS (4 units minimum)
  - PHYSICAL SCIENCE (4 units minimum)

### Lower-Division Total Units 40 units

#### Common Breadth Courses

- **English (12 units) - Grade of “C” or better is required**
  - Course Name | Units | Completed | Course Name | Units | Completed |
  - ENGL001A | 4 | MATH009A | 4 | CS010A | 4 |
  - ENGL001B | 4 | MATH009B | 4 | CS010B | 4 |
  - ENGL001C | 4 | MATH031 | 5 | CS010C | 4 |
  - HUMANITIES (12 units minimum)
    - MATH010A | 4 | STAT010A | 4 |
    - MATH/CS011 | 4 | STAT010B | 4 |
    - STAT156A | 4 | STAT156B | 4 |
    - STAT170 | 4 | STAT171 | 4 |
  - One (1) course from: World History 10, 15, or 20
    - MATH/CS011 | 4 | STAT156A | 4 |
    - STAT170 | 4 | STAT171 | 4 |
  - One (1) course in: fine arts, literature, philosophy, or religious studies
    - MATH/CS011 | 4 | STAT156A | 4 |
    - STAT170 | 4 | STAT171 | 4 |
  - One (1) additional humanities course
    - MATH/CS011 | 4 | STAT156A | 4 |
    - STAT170 | 4 | STAT171 | 4 |
  - SOCIAL SCIENCES (12 units minimum)
    - MATH/CS011 | 4 | STAT156A | 4 |
    - STAT170 | 4 | STAT171 | 4 |
    - One (1) additional social sciences course
      - MATH/CS011 | 4 | STAT156A | 4 |
      - STAT170 | 4 | STAT171 | 4 |
  - ETHNIC STUDIES (4 units minimum)
    - MATH/CS011 | 4 | STAT156A | 4 |
    - STAT170 | 4 | STAT171 | 4 |
    - May count towards add’tl humanities or add’tl social sciences, but not both
      - MATH/CS011 | 4 | STAT156A | 4 |
      - STAT170 | 4 | STAT171 | 4 |
  - BIOLOGICAL SCIENCES (4 units minimum)
    - MATH/CS011 | 4 | STAT156A | 4 |
    - STAT170 | 4 | STAT171 | 4 |
    - MATHEMATICS (4 units minimum)
      - MATH/CS011 | 4 | STAT156A | 4 |
      - STAT170 | 4 | STAT171 | 4 |
  - PHYSICAL SCIENCE (4 units minimum)
    - Refer to your university catalog year and degree audit for specific course listings and all major requirements. An introductory STAT010 and 011 is strongly recommended
      - MATH/CS011 | 4 | STAT156A | 4 |
      - STAT170 | 4 | STAT171 | 4 |

**IMPORTANT NOTES:**

Please monitor course availability and prerequisites. For example, the STAT156AB series is typically offered once a year: STAT156A in fall, STAT156B in winter.

**Four courses (at least unique 16 units) from the following:**

- Four courses (at least unique 16 units) from the following:
  - CS166
  - CS167
  - CS170
  - CS180
  - BIO05A & 020
  - BIOL05A & 020
  - BUS103 & 115
  - BUS104 & 123
  - BUS124 & 125
  - BUS124 & 125
  - ECON108 & 136
  - EE142 & 146
  - GEO111 & 161
  - GEO115 & 147
  - MATHEMATICS (4 units minimum)
  - PHYSICAL SCIENCE (4 units minimum)
  - ETHNIC STUDIES (4 units minimum)
  - BIOLOGICAL SCIENCES (4 units minimum)
  - MATHEMATICS (4 units minimum)
  - PHYSICAL SCIENCE (4 units minimum)

**IMPORTANT NOTES:**

Please monitor course availability and prerequisites. For example, the STAT156AB series is typically offered once a year: STAT156A in fall, STAT156B in winter.

**Four courses (at least unique 16 units) from the following:**

- Four courses (at least unique 16 units) from the following:
  - CS166
  - CS167
  - CS170
  - CS180
  - BIO05A & 020
  - BIOL05A & 020
  - BUS103 & 115
  - BUS104 & 123
  - BUS124 & 125
  - BUS124 & 125
  - ECON108 & 136
  - EE142 & 146
  - GEO111 & 161
  - GEO115 & 147
  - MATHEMATICS (4 units minimum)
  - PHYSICAL SCIENCE (4 units minimum)
  - ETHNIC STUDIES (4 units minimum)
  - BIOLOGICAL SCIENCES (4 units minimum)
  - MATHEMATICS (4 units minimum)
  - PHYSICAL SCIENCE (4 units minimum)