Behavioral Statistics

Behavioral Statistics Major

This degree is a joint effort between the Department of Statistics and the Department of Psychology (http://bulletin.ndsu.edu/past-bulletin-archive/2015-16/undergraduate/colleges/science-mathematics/psychology). It is recommended that a student wishing to obtain a degree in Behavioral Statistics consult with an adviser in both departments. This major prepares students for careers involving collecting and analyzing data on human behavior, for example, in Medicare, insurance, market research, or health, educational and social services. Graduates of this program are expected to have good quantitative reasoning skills and to have strong people skills. Note: this curriculum also fulfills requirements for the major in Psychology.

Major Requirements

Major: Behavioral Statistics

Degree Type: B.A. or B.S.
Required Degree Credits to Graduate: 122

General Education Requirements

First Year Experience (F):

UNIV 189  Skills For Academic Success (Students transferring in 24 or more credits do not need to take UNIV 189.)  1
Communication (C):

ENGL 110  College Composition I  3
ENGL 120  College Composition II  3
One Course in Upper Level Writing: Select from current general education list  3
COMM 110  Fundamentals of Public Speaking  3
Quantitative Reasoning (R):

STAT 330  Introductory Statistics  3
Science & Technology (S):

BIOL 126  Human Biology  3
CHEM 117  Chemical Concepts and Applications
& 117L  and Chem Concepts and Applications Lab  4
CSCI 114  Microcomputer Packages  3
or CSCI 116  Business Use of Computers  3
Humanities & Fine Arts (A): Select from current general education list  6
Social & Behavioral Sciences (B):

ANTH 111  Introduction to Anthropology  3
SOC 110  Introduction to Sociology  3
Wellness (W): Select from current general education list  2
Cultural Diversity (D):

ANTH 111  Introduction to Anthropology  3
Global Perspectives (G): Select from current general education list

Total Credits  40-41

College Requirements

Bachelor of Science (BS) Degree – An additional 6 credits in Humanities or Social Sciences

Bachelor of Arts (BA) Degree – An additional 12 credits Humanities and Social Sciences and proficiency at the second year level in a modern foreign language.

* Humanities and Social Sciences may be fulfilled by any course having the following prefix: ADHM, ANTH, ARCH, ART, CJ, CLAS, COMM, ECON, ENGL, FREN, GEOG, GERM, HDFS, HIST, LA, LANG, MUSC, PHIL, POLS, PSYC, RELS, SOC, SPAN, THEA, WGS, or any course from the approved list of general education courses in humanities and social sciences (general education categories A and B). These credits must come from outside the department of the student’s major.

Major Requirements

General Education Requirements

College of Science and Mathematics Requirements
### Behavioral Statistics Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 111</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC Elective</td>
<td>200-400 Level Electives</td>
<td>6</td>
</tr>
<tr>
<td>PSYC 350</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 351</td>
<td>Research Methods II</td>
<td>3</td>
</tr>
<tr>
<td>PSYC Elective</td>
<td>400 Level Elective</td>
<td>3</td>
</tr>
<tr>
<td>STAT 331</td>
<td>Regression Analysis</td>
<td>2</td>
</tr>
<tr>
<td>STAT 462</td>
<td>Introduction to Experimental Design</td>
<td>3</td>
</tr>
<tr>
<td>STAT 470</td>
<td>Statistical SAS Programming</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 471</td>
<td>Introduction to the R Language</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 480</td>
<td>History &amp; Systems</td>
</tr>
<tr>
<td>PSYC 489</td>
<td>Honors Thesis</td>
</tr>
<tr>
<td>STAT 491</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

### Related Courses Required

**Mathematics:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>College Algebra (if needed as a prerequisite) Or Higher Level</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from 3 of the following 4 groups (A-D)

**Group A - Social/Personality:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 453</td>
<td>Organizational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 468</td>
<td>Personality</td>
<td></td>
</tr>
<tr>
<td>PSYC 470</td>
<td>Experimental Social Psychology</td>
<td></td>
</tr>
</tbody>
</table>

**Group B - Perception/Cognition:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 460</td>
<td>Sensation &amp; Perception</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 461</td>
<td>Memory And Knowledge</td>
<td></td>
</tr>
<tr>
<td>PSYC 464</td>
<td>Attention &amp; Thinking</td>
<td></td>
</tr>
</tbody>
</table>

**Group C - Biological Bases of Behavior:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 465</td>
<td>Psychobiology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 481</td>
<td>Health Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 486</td>
<td>Neuropsychology</td>
<td></td>
</tr>
</tbody>
</table>

**Group D - Individual Differences:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 463</td>
<td>Experimental Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 471</td>
<td>The Psychology Of Aging</td>
<td></td>
</tr>
<tr>
<td>PSYC 472</td>
<td>Advanced Psychopathology</td>
<td></td>
</tr>
<tr>
<td>PSYC 473</td>
<td>Child Psychopathology and Therapy</td>
<td></td>
</tr>
</tbody>
</table>

**Group E - Select two of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 460</td>
<td>Applied Survey Sampling</td>
<td>6</td>
</tr>
<tr>
<td>STAT 463</td>
<td>Nonparametric Statistics</td>
<td></td>
</tr>
<tr>
<td>STAT 469</td>
<td>Introduction to Biostatistics</td>
<td></td>
</tr>
<tr>
<td>STAT 472</td>
<td>Time Series</td>
<td></td>
</tr>
</tbody>
</table>

**Degree Requirements:** Potential of 28 elective credits to reach 122

**Total Credits**

122-130

**Program notes**

- Except for courses offered only as pass/fail grading, no course may be taken Pass/Fail.