## Statistics

## Statistics Major

The Department of Statistics offers a major leading to a B.S., B.A., M.S., or Ph.D. degree, as well as minors in Statistics for both undergraduate and graduate students. The program is flexible enough to be individually planned around prior experience and in accord with professional goals. The program emphasis is on applied statistics, consulting, and computational methods.

## Statistics Minors

Two different tracks within the Statistics minor are offered. A Department of Statistics (Morrill 221 (https://www.ndsu.edu/alphaindex/buildings/ Building::382) ) adviser for minors must approve the program.

## Major Requirements

## Major: 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): |  |  |
| MATH 165 | Calculus I | 4 |
| Science \& Technology (S): |  |  |
| A one-credit lab must be taken as a co-requisite with a general education science/technology course unless the course includes an embedded lab experience equivalent to a one-credit course. Select from current general education list |  | 10 |
| Humanities \& Fine Arts (A): Select from current general education list |  | 6 |
| Social \& Behavioral Sciences (B): Select from current general education list |  | 6 |
| Wellness (W): Select from current general education list |  | 2 |
| Cultural Diversity (D): Select from current general education list |  |  |
| Global Perspectives (G): Select from current general education list |  |  |

## Total Credits

## 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.

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## Program Notes

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


## Two tracks are available:

- Statistical (Standard) Track (p. 2)
- Applied Statistics Track (p. 3)


## Minor Requirements

## Statistics (Standard) Track

Required Credits: 22

## Required Courses

| MATH 165 | Calculus I | 4 |
| :--- | :--- | :--- |
| MATH 166 | Calculus II | 4 |
| STAT 331 | Regression Analysis | 2 |
| or STAT 461 | Applied Regression Models |  |
| STAT 367 | Probability | 3 |
| STAT 368 | Statistics | 3 |


| STAT 462 | Introduction to Experimental Design | 3 |
| :--- | :--- | ---: |
| STAT Elective | 400 Level | 3 |
| Total Credits |  | $\mathbf{2 2}$ |
| Minor Requirements |  |  |
| Applied Statistics Track |  | 3 |
| Required Credits: $\mathbf{1 7}$ |  | 2 |
| Required Courses | Introductory Statistics | $\mathbf{2}$ |
| STAT 330 | Regression Analysis | 12 |
| STAT 331 | Select 4 department approved 400-level, 3 credit statistics courses. | $\mathbf{1 7}$ |
| STAT Electives |  |  |

## Minor Requirements and Notes

- A minimum of 8 credits must be taken at NDSU.


[^0]:    * 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

    A grade of 'C' or better is required in ALL courses used toward the major.
    General Education Requirements ..... 40
    College of Science and Mathematics Requirements ..... 6-12
    Statistics Major Requirements

