Why Get a Statistics Minor?

The gain in knowledge will move you to the "head of the class" in quantitative literacy and will greatly increase job opportunities.

- Almost all Science careers use data collection and data analysis very often.

- Careers in journalism, business, political science, linguistics, etc… use and benefit from data collection and data analysis.

- A background in statistics will be invaluable in these career fields.

Minor Description

- All courses in the Statistics minor must be completed with a grade of C (2.00) or better. All courses transferred from other institutions for credit in the Statistics minor must carry a grade of C (2.00) or better and be approved by the department chair.

- Students must complete at least 3 semester hours at the upper-division level in the minor through MTSU.

Upper Division Course Descriptions

Regression Analysis – STAT 4360
- Theory and application of regression models. Approaches to model building and data analysis. Computation and interpretation of results facilitated through the use of statistical software packages.

Nonparametric Statistics– STAT 4370
- Statistical tests that require no assertions about parameters or about the form of the population from which the samples are drawn. A wide range of practical problems studied.

Experimental Design – STAT 4380
- Topics include one-way analysis of variances, multiple comparisons, multifactor analysis of variance, and various practical issues in experimental design. Computation and interpretation of results facilitated through the use of statistical software packages.

Problems in Statistics – STAT 4600
- Students wishing to enroll must submit a written course/topic proposal to the department prior to the semester in which STAT 4600 is taken. Proposal must be approved prior to taking the course. At the conclusion, each enrollee must submit a written report to the department.

Careers in Statistics

- **Statistician**
  Work with theoretical or applied statistics. The profession exists in both the private and public sectors.

- **Data analyst**
  Translate numbers into plain English. They collect data, whether it's sales figures, market research, logistics, or transportation costs and use it to help businesses make decisions.

- **Statistical programmer**
  Work from a database of information to form computer programs. A few examples would be a hospital database, a catalogue of insurance claims, a national survey, or clinical medication trials.

Requirements

Minor requires 15 or 16 credit hours:

- ➢ Calculus I
  MATH 1910 (4 credits)
  or
  MATH 1810 (3 credits)

- ➢ Probability and Statistics
  MATH 2050 (3 credits)

- ➢ Applied Statistics II
  MATH 2530 (3 credits)

At least two of:
- ➢ Regression Analysis
  STAT 4360 (3 credits)

- ➢ Nonparametric Statistics
  STAT 4370 (3 credits)

- ➢ Experimental Design
  STAT 4380 (3 credits)

- ➢ Problems in Statistics
  STAT 4600 (3 credits)

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Statistics Minor

Make yourself shine on every job application with a Minor in Statistics!

From:

MIDDLE TENNESSEE
STATE UNIVERSITY