

STATISTICS

Faculty

Russell, Steinbacher

Associate of Science Degree Applied Statistics

The Applied Statistics program provides the student with the methods and procedures to properly plan and obtain data for a research project, and then correctly analyze the collected information in order to answer the question motivating the study.

The Associate of Science in Applied Statistics will prepare the student for all further research methodology courses in every academic discipline through the Master's level.

(Recommended Curriculum)

General Education (Minimum 32 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
 - Laboratory science 4
 - MATH 1000 Problem Solving or
 - MATH 1400 Pre-Calculus Algebra 3-4
2. Communication
 - ENGL 1010 English I: Composition 3
 - ENGL 1020 English II: Composition 3
3. Relationship with the World
 - Human behavior 3
 - U.S. and Wyoming constitutions 3
 - Cultural environment 3
4. General Education Electives
 - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education 1

Major Requirements

- STAT 2050 Fundamentals of Statistics or
- STAT 2070 Introductory Statistics for
 - Social Sciences 5
- STAT 2150 Statistical Methods of Data Analysis 5
- *STAT 2220 Experimental Design 5
- **STAT 2120 Fundamentals of Sampling or
- ***STAT 2240 Categorical Data Analysis 5

Major Field Electives: At least 12 additional credits from the following:

- BIOL 2100 Quantitative Research in Biology 3
- ENGL 2010 Technical Writing I 3
- MATH 2200 Calculus I or
- MATH 2350 Business Calculus I 4-5
- PSYC 2000 Research Psychological Methods 4
- **STAT 2120 Fundamentals of Sampling 5
- ***STAT 2240 Categorical Data Analysis 5
- STAT 2485 Statistics Laboratory 2
- STAT 2490 Special Topics: 1-3
- Laboratory Science 4

*Students desiring upper division credit (UW) must register for STAT 4025 (UW/CC) and STAT 2221. Taken concurrently these courses are equivalent to STAT 2220.

**Students desiring upper division credit (UW) must register for STAT 4155 (UW/CC) and STAT 2121. Taken concurrently these courses are equivalent to STAT 2120.

***Students desiring upper division credit (UW) must register for STAT 4045 (UW/CC) and STAT 2241. Taken concurrently these courses are equivalent to STAT 2240.

All classes in the major must be passed with a "C" or better.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Applied Statistics Certificate

The certificate program is designed for persons wishing to obtain statistical training in order to enhance their current career choice. The coursework provides the student working knowledge of all of the most commonly employed statistical designs, data gathering mechanisms, and training in the use of two different statistical computer packages for data analysis. The focus is always on application and results. Completion of the course work is equivalent to a minor concentration in statistics.

(Certificate Requirements)

- | General Education | Credits |
|---|---------|
| CO/M 1030 Interpersonal Communication | 3 |
| ENGL 1010 English I: Composition | 3 |

Major Requirements

- STAT 2050 Fundamentals of Statistics 5
- **STAT 2120 Fundamentals of Sampling 5
- STAT 2150 Statistical Methods of Data Analysis 5
- *STAT 2220 Experimental Design 5
- ***STAT 2240 Categorical Data Analysis 5

For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.