Statistics
College of Natural Science and Mathematics
Department of Mathematics and Statistics
907-474-7332
www.dms.uaf.edu

Minor Only

Statistics is a collection of methods and theories for making decisions or estimating unknown quantities from incomplete information. Statistical techniques are useful, for example, in estimating plant, animal and mineral abundances; forecasting social, political and economic trends; planning field plot experiments in agriculture; performing clinical trials in medical research; and maintaining quality control in industry. Employment opportunities are excellent for statisticians in many of these areas of application.

Minor

1. Complete the following:
   STAT F200X—Elementary Probability and Statistics (3)
   or STAT F300—Statistics (3) .................................................3
   STAT F401—Regression and Analysis of Variance ..............4
   MATH F371—Probability* ..................................................3
   MATH F408—Mathematical Statistics.................................3
   MATH, STAT or STAT related course work** ....................3

2. Minimum credits required .......................................................16
   * MATH F371 requires MATH F200X, F201X and F202X as prerequisites.
   ** e.g., BA F360, GEOS F430, ANTH F424, MATH F460, etc.

Note: Courses completed to satisfy this minor can be used to simultaneously satisfy other major or general distribution requirements.

Note: Fisheries majors selecting the research option need only complete MATH F371 and MATH F408 in addition to their fisheries requirements to obtain a minor in statistics.
All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

**Baccalaureate Core Requirements**
*(Note: all courses for Core must be completed with C- or higher.)*

**COMMUNICATION (9)**
Complete the following:
- ENGL F111X ..................................................(3)
  * ENGL F190H may be substituted.
- Complete one of the following:
  - ENGL F211X OR ENGL F213X .........................(3)
  - Complete one of the following:
  - COMM F131X OR COMM F141X ..........................(3)

**PERSPECTIVES ON THE HUMAN CONDITION (18)**
Complete all of the following four courses:
- ANTH F100X/SOC F100X ........................................(3)
- ECON F100X OR PS F100X ....................................(3)
- HIST F100X ........................................................(3)
- ENGL/FL F200X ................................................(3)
- Complete one of the following three courses:
  - ART/MUS/THR F200X, HUM F201X OR ANS F202X .... (3)
- Complete one of the following six courses:
  - BA F323X, COMM F300X, JUST F300X, NRM F303X, PS F300X OR PHIL F322X ..............................(3)
- OR complete 12 credits from the above courses PLUS
  * two semester-length courses in a single Alaska Native language or other non-English language OR
  * three semester-length courses (9 credits) in American Sign Language taken at the university level.

**MATHEMATICS (3)**
Complete the following:
- MATH F103X, MATH F107X, MATH F161X OR
  - STAT F200X ......................................................(3 – 4)
  * No credit may be earned for more than one of MATH F107X or F161X.
- OR complete one of the following:
  - MATH F200X, MATH F201X, MATH F202X, MATH F262X OR MATH F272X .................................................(4)
  *Or any math course having one of these as a prerequisite.

**NATURAL SCIENCES (8)**
Complete any two (4-credit) courses:
- ATM F101X .......................................................(4)
- BIOL F100X .....................................................(4)
- BIOL F103X .....................................................(4)
- BIOL F104X .....................................................(4)
- BIOL F111X .....................................................(4)
- BIOL F112X .....................................................(4)
- BIOL F115X .....................................................(4)
- BIOL F116X .....................................................(4)
- CHEM F100X ..................................................(4)
- CHEM F103X ..................................................(4)
- CHEM F104X ..................................................(4)
- CHEM F105X ..................................................(4)
- CHEM F106X ..................................................(4)
- CHEM F108X ..................................................(4)
- GEOL F111X ................................................... (4)
- GEOS F100X ................................................... (4)
- GEOS F101X ................................................... (4)
- GEOS F112X ................................................... (4)
- GEOS F120X ................................................... (4)
- GEOS F125X ................................................... (4)
- MSL F111X .....................................................(4)
- PHYS F102X ....................................................(4)
- PHYS F103X ....................................................(4)
- PHYS F104X ....................................................(4)
- PHYS F115X ....................................................(4)
- PHYS F116X ....................................................(4)
- PHYS F117X ....................................................(4)
- PHYS F211X ....................................................(4)
- PHYS F212X ....................................................(4)
- PHYS F213X ....................................................(4)

**LIBRARY AND INFORMATION RESEARCH (0 – 1)**
Successful completion of library skills competency test OR
- LS F100X or F101X prior to junior standing ..............(0 – 1)

**UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)**
Complete the following:
- Two writing intensive courses designated (W) ..............(0)
- and one oral communication intensive course
designated (O) ..................................................(0)
  OR two oral communication intensive courses designated
  (O/2), at the upper-division level (see degree and/or major
  requirements) ..................................................(0)

**CORE CREDITS REQUIRED ........................................... 38 – 39**
Minimum credits required for degree .......................... 120