

DEGREE PROGRAMS

For the Bachelor of Arts

Core requirements (24-25 units)

- CS 010, MATH 007A, MATH 007B, MATH 009A, MATH 009B, MATH 009C, MATH 010A
- 4 additional units of MATH 031

Upper-division requirements (36 units)

36 units of upper-division coursework

- STAT 147, STAT 157, STAT 160A, STAT 160B, STAT 160C, STAT 170A, STAT 170B, STAT 171
- 4 units of STAT 183 taken at the end of senior year

For the Bachelor of Science

Core requirements (24-25 units)

- CS 010, MATH007A, MATH007B, MATH 009A, MATH 009B, MATH 009C, MATH 010A
- 4 additional units of MATH 031

Upper division requirements (52 units)

36 units of upper-division coursework

- STAT 147, STAT 157, STAT 160A, STAT 160B, STAT 160C, STAT 170A, STAT 170B, STAT 171
- 4 units of STAT 183 taken at the end of senior year

16 units of additional coursework chosen, with the approval of the major advisor, from STAT 110, STAT 127/BUS 127, STAT 130, STAT 140, STAT 146, STAT 161, STAT 167 or from related fields with the approval of the major advisor.

Notes

- An introductory Statistics class such as STAT 048 or STAT 100A is strongly recommended
- The department also offers a **B.S. in Statistics with a Statistical Computing Option** and a **B.S. in Statistics with a Quantitative Management Option**. See the *UCR General Catalog* for more information on the



HIGHLANDER STATISTICS SOCIETY

The Highlander Statistics Society was founded to form unity and friendship among undergraduate and graduate students in statistics and those interested in statistics, to promote scholarship and interest in statistics, and to inform people of opportunities and challenges in the field. For additional information, contact HighlanderStatisticsSociety@gmail.com.

ADVISING

Current course requirements are available online in the UCR General Catalog at www.catalog.ucr.edu. For help in selecting courses, and for information about policies and procedures, contact: Professional Academic Advisor Javier Ramirez CNAS Undergraduate Academic Advising Center 1223 Pierce Hall

Email: javier.ramirez@ucr.edu

Phone: (951) 827-7288

For advice about careers, graduate programs, and letters of recommendation, contact:

Undergraduate Faculty Advisor Dr. Jun Li

Department of Statistics

Email: jun.li@ucr.edu

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statistics.ucr.edu

Undergraduate studies in Statistics



Growing great science
Making new discoveries
Building great minds





Statistics is a big tent



Statistics at the University of California, Riverside

ABOUT STATISTICS

Statistics deals with the problem of making inductive inferences in the face of uncertainty. It provides the reasoning and the methods for producing and understanding data. It is learning from data and includes collecting, organizing, analyzing, and interpreting results. Statisticians identify patterns in data to understand them and make decisions in business and industry and in the biological, physical, psychological, and social sciences. Statisticians provide the methodology for making important advances in medical and other scientific research arenas, and work at various tasks such as market research, opinion polling, survey management, data analysis, designing statistical experiments, and teaching statistical techniques and theories.

ABOUT THE DEPARTMENT

The Department of Statistics has a reputation for outstanding teaching, research, and consulting services. The undergraduate program offers B.A. and B.S. degrees with options in Statistical

Computing and Quantitative Management. Students have unusually free access to the faculty, many of whom have received national and international recognition for their work.

The degree programs offer students opportunities to diversify their study to include research areas in a variety of academic disciplines. The Statistical Consulting Collaboratory provides faculty and students a rich environment for collaboration in research and instruction, emphasizing statistical/quantitative approaches. The faculty serves the academic community in many roles—as editors of major academic publications, as authors of major textbooks and research monographs, and as consultants to business, government, and international organizations.

CAREER PATHS

Medicine: The search for improved medical treatments rests on careful experiments that compare promising new treatments with the current state of the art. Statisticians work with

medical teams to design the experiments and analyze the resulting data.

Environment: Studies of the environment require data on the abundance and location of plants and animals, on the spread of pollution from its sources, and on the possible effects of changes in human activities.

Industry: The future of many industries depends on improvement in the quality of goods and services and in the efficiency with which they are produced and delivered.

Government: What do we export to China, and what do we import? Are rates of violent crime increasing or decreasing? Government wants data on issues like these to guide policy.

Marketing: Are consumer tastes in television programs changing? What are promising locations for a new retail outlet? Statisticians design the elaborate surveys that gather data for both public and private use.