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 or visit http://web.me.com/ngaba001/hiss.

ADVISING

For help in selecting courses, and for information about policies and procedures, contact Professional Academic Advisor Rena Burton in the CNAS Undergraduate Academic Advising Center, 1223 Pierce Hall, (951) 827-7294, rena.burton@ucr.edu. Current course requirements are available online in the UCR General Catalog at www.catalog.ucr.edu.

For advice about careers, graduate programs, and letters of recommendation, contact the Undergraduate Faculty Advisor in the Department of Statistics, Dr. James Flegel, james.flegel@ucr.edu, (951) 827-2247, or visit http://statistics.ucr.edu.

DEGREE PROGRAMS

For the B.S. with Statistical Computing option

Core requirements (24 units)
- CS010, Math 9A-9B-9C, Math 10A
- 4 additional units chosen from Math 133 or 131

Lower division requirements (8 units)
- CS 010, 012

Upper division requirements (52 units)
- 36 units: Stat 147, 155, 157, 170A-B
- 16 units chosen from Stat 127, 130, 140, 146, 160A-160B-160C, 171
- Math 113
- 12 units chosen from CS 141, CS 177, Math 112, Math 120, Stat 198-I
- Math 135A, 135B recommended

For the B.S. with Quantitative Management option

Core requirements (24 units)
- CS010, Math 9A-9B-9C, Math 10A
- 4 additional units chosen from Math 023, 133, 131

Lower division requirements (16 units)
- Econ 003
- BUS 010, BUS 020, BUS 021

Upper division requirements (52 units)
- 36 units: Stat 147, 155, 157, 170A-170B
- 16 units chosen from Stat 127, 130, 140, 146, 160A-160B-160C, 171
- Math 113
- 3 courses from one area
  Marketing: BUS 103, 113, 117
  Management Information Systems: BUS 101, 171, 173

DEGREE PROGRAMS

For the B.S. with Statistical Computing option

Core requirements (24 units)
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- 4 additional units chosen from Math 133 or 131

Lower division requirements (8 units)
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Upper division requirements (52 units)
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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.