STATISTICS, B.S.

The Bachelor of Science degree program provides a strong basis in both
applied and theoretical statistics and prepares students for a variety of
careers. Students will demonstrate the ability to perform fundamental
statistical analyses and to prepare informative graphics for public
presentations. They will gain mastery of probability and mathematical
statistics as well as the use of statistical programming languages and
improve technical writing and presentation skills.

Statisticians are in great demand and work in various settings including
finance, insurance, banking, survey research, government agencies,
and e-commerce. "Statistician" and "data scientist" are consistently
ranked among the top jobs for graduates due to their high demand and
excellent salaries. There are two options under the B.S. in Statistics
degree program: the General Major and the Major with a Concentration
in Actuarial Science, designed for students planning a career as an
actuary. Statistics is also an ideal double major to gain analytical skills to
complement a primary field of study.

Learning Outcomes

1. Students will demonstrate the ability to perform fundamental
   statistical analyses and to prepare informative graphics for public
   presentation.
2. Students will demonstrate a mastery of probability and mathematical
   statistics at the mathematical level of calculus and linear algebra.
3. Students will demonstrate the ability to use statistical programming
   languages.
4. Students will demonstrate competency in technical writing and
   presentation.

Retention

To be retained in the program, a student must obtain a grade of C or
higher in at most two attempts in all mathematics, computer science, and
statistics courses required for graduation.

Transfer Requirement

Any student applying to transfer to the statistics major from
other programs within the University, or from other accredited
colleges and universities, is required to have earned a grade of “B”
or higher in at least one of the following courses, or their equivalent:
USC's MATH 141, MATH 142, STAT 509, or STAT 515. An AP or IB
exam score that provides credit for MATH 142 also satisfies this
requirement. STAT 509 and STAT 515 are advanced undergraduate
courses. This requirement is in addition to the minimum University and
College of Arts and Sciences requirements.