

Statistics

Statistics is the collection, organization, and interpretation of numerical data.

This data can be applied in different fields including business, government, or professions related to the social sciences and humanities. Studies in this field include the most efficient ways to collect and interpret data, and require a strong background in algebra, computing, calculus, and logic. The foundation for other studies in research methods, a degree in statistics includes studying probability, sampling, regression analysis, and experimental design. Specialization is important in statistics and there are many different concentrations available at the graduate level.

Undergraduate: Students pursuing an undergraduate program in statistics may receive a Bachelor of Arts (BA) or Bachelor of Science (BS) in Statistics. Both the BA and BS degrees provide well-rounded academic programs, including general education course requirements in social sciences and humanities for the BA degree and hard or natural sciences for the BS degree. A sample of courses available at the undergraduate level includes statistical methods, experimental design, regression analysis, statistical computing, and calculus.

Graduate: Students pursuing a graduate program in statistics may earn a Master of Science (MS), or a Doctor of Philosophy in Statistics. Also, several business schools offer statistics as a concentration in a Master of Business Administration (MBA) program. Degree titles vary by institution and academic program. Graduate students in statistics usually will choose among a variety of degree concentrations in the field of statistics such as Business Statistics, Descriptive Statistics, Econometrics, Environmental Statistics, Game Theory, Inferential Statistics, Industrial Statistics, and Social Statistics. A sample of courses available at the graduate level includes Data Analysis, Statistical Consulting, Linear Statistical Modeling, and Mathematical Statistics.

Occupations in Statistics:

With a degree in statistic consider your professional opportunities as an Actuary, Data analyst, Statistician, Statistical Analyst, Statistical Programmer, Professor, or Project Statistician.

Choosing a Statistics Program:

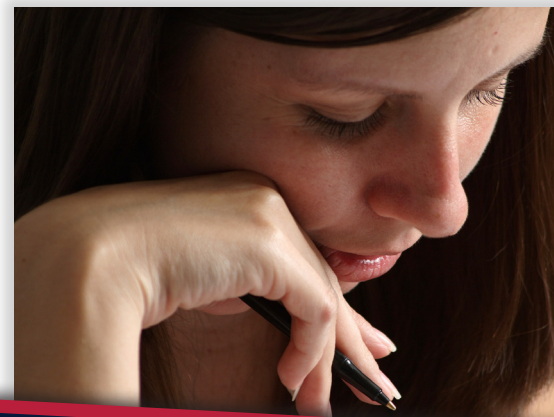
If you are considering continuing your education in this field, you should become familiar with academic trends and current development. Utilize current literature and consider the existing research of professors in matching your academic and career goals with the right institutions for you. EducationUSA Centers provide advising services and a diverse collection of materials to assist students searching for schools and financial aid program. To find the nearest EducationUSA Advising Center, visit www.educationusa.info/centers.php.

There is no professional or programmatic accrediting organization for academic programs in statistics however, be sure to research all recognized regionally accredited programs at www.chea.org.

Associations and Organizations Affiliated with the

Study of Statistics:

- American Statistical Association, www.amstat.org
- American Mathematical Society, www.ams.org
- Justice Research and Statistics Association, www.jrsa.org
- International Association for Statistical Education, www.stat.auckland.ac.nz/~iase
- The Econometric Society, www.econometricsociety.org



Scholarly Journals Related to the Study of Statistics: Journal of Statistics Education, Journal of Official Statistics, Econometrica, Evolution, International Journal of Statistics and Systems, and International Journal of Applied Mathematics and Statistics.

Undergraduate Program Search Print and Online Resources:

- College Board, www.collegeboard.com
- Search for schools with the College Board's online, "College Matchmaker."
- Read about specific majors and careers using the "Major and Career Profiles" search www.collegeboard.com/csearch/majors_careers/profiles/
- American Mathematical Society, www.ams.org/programs/students/undergrad

Graduate Program Search Print and Online Resources:

- Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources; Book 4
- Peterson's online at www.petersons.com

Find Scholarships to Study Statistics:

- EducationUSA Financial Aid links, www.educationusa.info/pages/students/finance.php
- Funding U.S. Study, www.fundingusstudy.org
- Peterson's Scholarship Directory, www.petersons.com
- The Fulbright Program, <http://fulbright.state.gov>
- DV Gokhale International Grants/Loans in Statistics, www.iie.org
- American Statistical Association, www.amstat.org
- American Mathematical Society, www.ams.org/programs/ams-fellowships



If you are interested in pursuing higher education in the U.S. and would like further guidance please contact your local EducationUSA Advising Center