

# Applied Statistics

What can I do with this major?



## Related Career Titles

Search for potential careers/jobs in your field with these position titles

- Actuary
- Statistician
- Biostatistician
- Teacher (secondary or post-secondary)
- Operations Research Analyst
- Data Analyst (e.g. biological, clinical trials, financial)
- Financial Analyst
- Market Research Specialist
- Logistician
- Quality Assurance Engineer/Analyst
- Underwriter

## Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *Mathematical Association of America , UHD Chapter*
- ✓ *Society of UHD Engineers*
- ✓ *American Statistical Association, Houston area Chapter*
- ✓ *National Council of Teachers of Mathematics*
- ✓ *Society of Actuaries*
- ✓ *Society for Industrial and Applied Mathematics*
- ✓ *American Mathematical Society*

## Explore Career Specific Websites

[www.amstat.org/](http://www.amstat.org/) | [www.beanactuary.org/](http://www.beanactuary.org/) | <http://www.maa.org/careers>  
[www.ams.org/](http://www.ams.org/) | [www.nctm.org/](http://www.nctm.org/) | [www.soa.org/](http://www.soa.org/) | [www.siam.org/](http://www.siam.org/)  
[www.bioinformatics.org/](http://www.bioinformatics.org/) | [www.fda.gov/AboutFDA/CentersOffices/](http://www.fda.gov/AboutFDA/CentersOffices/)

## Graduate School Considerations

\*Programs not offered at UHD

- Master of Science in Data Analytics
- Master of Business Administration
- Master of Arts in Teaching
- Master of Science in Technical Communication
- Master of Science in Statistics\*
- Master of Science in Biostatistics
- Master of Science in Engineering\*
- Master of Science in Mathematics\*
- Master of Science in Bioinformatics\*

## Community Partnerships

Research local organizations offer internships to students pursuing a Bachelor of Science in Applied Statistics.

Apollo 20 Math Fellowship	Direct Energy	Willis Towers Watson	Phillips 66
METRO Transit Authority	HP	Academy Sports & Outdoors	City of Houston

## What is Applied Statistics?



The Bachelor of Science degree in Applied Statistics is structured to allow students to be employed in areas requiring the tools of discrete mathematics and statistics. The advent of high-speed computers and technological advances prepare students with statistical tools for applications to such areas as the life sciences, administrative/managerial sciences and the social/behavioral sciences. The use of statistics is extensive. Statistical models aid in the decision-making process in both private industry and government.

Concentration Tracks:

- Biostatistics
- Secondary Math Teacher Certification

### **Interested in discussing your career path possibilities?**

Visit (402-S) or  
Call (713-221-8980)

The Career Development Center

## **SUMMARY**

*Hard-working entry-level Statistician with strong knowledge in statistical theories and formulations, and adept in statistical modeling processes. Proficient in data preparation and statistical programming in R. Strong passion and interest in using statistical skills for use in medical research.*

## **EDUCATION**

University of Houston-Downtown, Houston, TX

**Bachelor of Science in Applied Statistics, May 2015**

**GPA:** 3.53

**Study Abroad:** Università Cattolica del Sacro Cuore, Milan, Italy, Winter 2013

**Honors:** Dean's List Fall 2014 and 2015

## **SKILLS**

Statistical Tools: R, SAS, IBM SPSS, Matlab, Microsoft Excel (pivot tables)

Computer: Canva, PowerPoint, Prezi

Language: Fluent in Spanish (reading, writing, speaking)

## **RELEVANT PROJECTS**

**The effects of sample size on statistical significance in 2-sample proportion tests** June 2014-May 2015

Independent research project

- Examined previously collected data on cognitive development of 9- and 14-month old infants
- Conducted simulations by increasing the sample sizes in statistical program R
- Identified recommended sample sizes for yielding statistically significant results at varying levels of alpha

**Predicting the probability of diabetes based on lifestyle**

Fall 2014

Statistical Modeling Project Leader

- Interpreted results for given data set about diabetes and performed transformations to meet assumptions
- Generated a predictive model using logistic regression

**Attitudes of atheists**

Spring 2014

Independent research project

Analyzed previously collected data on the beliefs of 8,351 atheist participants

- Reviewed publications on religious believers' attitudes towards atheists
- Reported correlations and percentages on morality, religion's impact, and psychological health of atheists

**Alamance Health Center**

Fall 2013

Survey Sampling Methods project

- Consulted with coordinator to assess needs of rehabilitation center
- Designed and administered a survey to patients in desired population
- Presented research findings in formal oral presentation to Center staff

## **LEADERSHIP AND CAMPUS INVOLVEMENT**

*Psychology Club-Treasurer*

Fall 2012-Spring 2014

- Coordinated three fundraisers raising \$200 for future events
- Managed a \$1000 organization budget

*Kappa Delta Sorority, Eta Chi Chapter- Founding Member*

Spring 2011-May 2015

- Planned and advertised philanthropy projects and on-campus events
- Volunteered with local Girl Scout troop planning events