Numbers support, communicate, and convince.
21st century numbers are different.
Energize your future with a Master in Applied Biostatistics.

MS in Applied Biostatistics
From the University of Miami
Why a Master of Science in Applied Biostatistics

(Short answer: The time has never been better)

Demand outstrips supply
Did you know that Fortune Magazine rates Master’s level biostatistician as the job with the second highest projected job growth (~24%) over the next 20 years? Demand for high quality Master’s level biostatisticians outstrips supply by a wide margin and is likely to do so for many years to come. The Bureau of Labor Statistics projects the job outlook for biostatistics at 13% growth from until 2018 alone.

What is Biostatistics?
Biostatistics interprets data produced in medicine, public health, biology and other health sciences (for instance, the biomedical sciences). Biostatisticians are experts in evaluating data as scientific evidence. Thanks to exponential advances, including in computational technology, biostatistics has emerged as key to important breakthroughs in a wide variety of scientific areas.

Who hires biostatisticians?
Two major employers outside the academic world that hire biostatisticians en masse are the pharmaceutical companies and government agencies. More generally, biostatisticians are also hired by the pharmaceutical industry, consulting companies, hospitals, and a variety of large companies that undertake industrial research. Indeed, all large businesses rely on statistics for marketing.
Take advantage of the demand for biostatisticians
Join a one-year program with a focus on immediate applicability

- **A one-year program**
The Master of Science (MS) in Applied Biostatistics provides a flexible curriculum to cover the basics. The one-year Master’s program in Applied Biostatistics is an applied program intended for people with appropriate backgrounds who are interested in beefing up their applied statistical training and joining the workforce after graduation.

- **Emphasis on applications**
The program emphasizes applications and understanding of statistical concepts rather than theoretical and mathematical principles. The program is meant to be a terminal degree providing students with necessary background for applying good biostatistical practices in real world settings and exciting positions in academia, government, and industry as applied biostatisticians or data scientists.

- **Variety of data settings**
Students will gain practical skills that can be applied immediately to a variety of data settings, which includes, but is not limited to, the biological life sciences, public health, medical studies, and health services research.
Our mission is to be at the cutting edge of biostatistical and computational methods development, to foster innovative quantitative collaborative research, to provide infrastructure biostatistical support for research around the University, and very importantly, to provide state-of-the-art, rigorous graduate training which will prepare our students for exciting positions in academia, government, and industry.
The degree consists of a total of 33 credits over 3 semesters in one year.

Pre-requisites are:
- Introductory calculus
- Introductory linear algebra
- Introductory computing

Fall Semester (13 credits)
- Introduction to Probability Theory
- Introduction to Statistical Methods I
- Statistical Computing
- Introduction to Public Health
- Topics in Biostatistics Research

Spring Semester (13 credits)
- Introduction to Statistical Methods II
- Survival Analysis in Clinical Trials
- Clinical Trials
- Fundamentals of Epidemiology
- Topics in Biostatistics Research

Summer Semester (7 credits)
- Statistical Consulting
- Case Studies
How to Apply

The SOPHAS application for the Fall academic year for MS in Applied Biostatistics is open at sophas.org.

Please contact SOPHAS directly at sophasinfo@sophas.org if you have questions regarding their online application.

Should you have any questions about our programs, specific University of Miami application instructions or your complete SOPHAS application, please contact publichealthadmission@miami.edu or visit http://publichealth.med.miami.edu/graduate/sophas
Miami – one of the most fascinating world cities today.

Miami is one of America’s, and one of the world’s, most dynamic cities. It offers something for everyone: from the glamorous nightlife of South Beach, to the vibrancy of Little Havana. Miami is the gateway to the Americas and the Caribbean, with the opportunity to lead innovation for the hemisphere, co-creating solutions for communities near and far.

The University of Miami – diverse and energized

At University of Miami you’ll join a diverse and energized academic community. Engaged in more than 180 academic programs and majors, undergraduate and graduate students come from across the nation and around the world to pursue their passions and set a course for future success. A private research university with more than 16,000 students from around the world, the University of Miami is a vibrant and diverse academic community.
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