The Graduate Certificate in Biostatistics Essentials

Department of Mathematical Sciences

College of Science and Liberal Arts

New Jersey Institute of Technology
WHY PURSUE A GRADUATE CERTIFICATE IN BIOSTATISTICS ESSENTIALS?
With the current explosion of data in the fields of health and life sciences, there is a growing demand for professionals trained in relevant statistical theory and corresponding computational and data-analytic practices. These professionals share their specialized knowledge with colleagues from other related fields. Biostatisticians with advanced degrees can look forward to excellent career opportunities in government, industry, and academia. The Seventh Report to the President and Congress on the Status of Health Personnel in the United States and Objectives for the Nation note that Biostatistics is a crucial technical competency for developing a skilled public health services workforce. Recent graduates of Biostatistics have found positions with employers as diverse as pharmaceutical companies, university research groups, hospitals, and health-related industries.

WHY STUDY BIOSTATISTICS ESSENTIALS AT NJIT?
The Graduate Certificate in Biostatistics is a program of the Department of Mathematical Sciences at NJIT, which is nationally recognized for quality education and applied research programs. Active participation by more than 40 NJIT mathematical sciences faculty produces a stimulating learning environment. In addition, New Jersey, with its concentration of medical, pharmaceutical, environmental and biotechnology industries, has a great demand for well-trained professionals in biostatistics.

GAINFUL EMPLOYMENT DISCLOSURE
For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at:

WHAT WILL I LEARN?
This certificate is designed for students interested in applying statistical methods to the area of health sciences in general and clinical studies in particular. The program has a quantitative focus and is for students wishing to pursue careers in NJ’s thriving healthcare, life sciences, and biomedical industries, and in pharmaceutical research. Statistical techniques are taught with an emphasis on applications in health related sciences accompanied by examples from biological, medical and clinical applications. Also covered will be statistical methods and issues in the design of clinical trials and analysis of data, statistical methods for modeling time-to-event data in the presence of censoring and truncation, and different sampling methods (simple random, stratified, cluster, systematic sampling, and ratio and regression estimates).

WHAT COURSES ARE OFFERED?
REQUAIED COURSES:
Math 663 Introduction to Biostatistics
Math 662 Probability Distributions
Electives: Select two (2) courses:
Math 664 Methods for Statistical Consulting
Math 665 Statistical Inference
Math 654 Clinical Trials Design and Analysis
Math 659 Survival Analysis
Complete course descriptions can be found in the NJIT Online Catalog at http://catalog.njit.edu/graduate.

*Now or shortly available online.
Courses are subject to change.
☑ Take care to select courses in proper order. Check course descriptions, because they state if one course must be taken before (i.e.; is a prerequisite to) another.

WHERE ARE THE CLASSES OFFERED?
All courses are available at NJIT’s Newark campus. Customized NJIT degrees and academic certificates can be brought on-site to your company or customized and conducted at a location convenient to a consortium of companies.

IS FINANCIAL AID AVAILABLE?
There may be sources of financial aid or tax credits available:

WHAT IS THE TUITION FOR GRADUATE COURSES?
Use the tuition calculator to see the cost of your education quickly and easily. Visit:
http://adultlearner.njit.edu/admissions/financialaid

CAN THE GRADUATE CERTIFICATE BE APPLIED TO AN ADVANCED DEGREE?
Courses in the Graduate Certificate program in Biostatistics Essentials can be wholly applied to NJIT’s MS in Biostatistics.

HOW DOES THE GRADUATE CERTIFICATE PROGRAM WORK?
Each stand-alone credential is a milestone in its own right and can be a 12-credit springboard to a matching Masters Degree program at NJIT or elsewhere. The credential can be completed in as little as one academic year of part-time study. Many can be studied online, in whole or partially. The admissions process requires possession of an undergraduate degree with a satisfactory grade point average. A GRE or GMAT score is not a pre-requisite. For a complete list of available Graduate Certificates, please visit: http://www.njit.edu/gradcert.

BRINGING A GRADUATE CERTIFICATE TO YOUR COMPANY
Arrangements can be made to bring a Graduate Certificate or Master’s program on-site to your company. A customized Graduate Certificate can also be offered to match your company’s area of technological and managerial specialty. For more information about Company Collaborative Graduate Certificates or enrollment in any of our Graduate Certificates, please contact CPE.

FOR FURTHER INFORMATION:
Division of Continuing Professional Education
1-800-624-9850 (Toll Free)
1-973-596-3060 (New Jersey)
Email: cpe@njit.edu

ON THE WEB:

APPLY ONLINE:
http://adultlearner.njit.edu/admissions