

# The Graduate Certificate in Data Mining

Entirely Online and In Class



Department of Computer Science

College of Computing Sciences

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**New Jersey Institute of Technology**

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## WHY PURSUE A GRADUATE CERTIFICATE IN DATA MINING?

Data Mining looks for hidden patterns in data that can be used to predict future behaviors, such as customers with common interests. Popular in the science and mathematical fields, data mining is now emerging as an indispensable tool for marketers and an important part of customer relationship management. In order to better understand customer behavior and preferences, businesses use data mining to wade through the huge amounts of information gathered via the Web.

## WHY STUDY DATA MINING AT NJIT?

NJIT has a long history of innovation in digital communications. With one of the most computing intensive campuses in the world, NJIT has pioneered the application of new technologies as learning tools. The university educates one of the largest groups of information technology students in the nation. Not coincidentally, New Jersey is one of the leading states for computing and high technology businesses. Thirty of the nation's fastest growing technology companies are based in the state. New Jersey ranks 7th in the nation as a cyberstate and 8th for venture capital investment – \$3.5 billion – in information technology and software. New Jersey offers the highest median salary in the nation for information systems managers.

## 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:

<http://adultlearner.njit.edu/programs/datamining-cert-ge.php>

## WHAT WILL I LEARN?

This certificate provides an introduction to data mining with an emphasis on large scale databases as a source of knowledge generation and competitive advantage. The focus is on providing analysts with the technical abilities to design and use the data resources of an organization.

## WHAT COURSES ARE OFFERED?

*Required: Core Courses*

CS 631/IS 631                      Data Management System Design\*  
CS 734                                Data Mining\*

*Select two (2) from:*

CS 602                                JAVA Programming\*  
IS 634                                Information Retrieval\*  
IS 687                                Transaction Mining and Fraud  
    Detection  
IS 688                                Web Mining  
MGMT 635                            Data Mining and 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?

The full credential can be studied **online** and 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.

## FOR FURTHER INFORMATION:

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

## WHAT IS THE TUITION FOR GRADUATE COURSES?

Use the tuition calculator to see full costs, and the fuel saving calculator to figure how much gas money is saved by studying **online**, visit: <http://adultlearner.njit.edu/costs>.

Studying ONLINE, but live out-of-state? Benefit from the new **online tuition rate** just for you, visit: <http://online.njit.edu>.

## IS FINANCIAL AID AVAILABLE EVEN FOR PART-TIME STUDENTS?

Yes, sources of financial aid or tax credits are available at: <http://adultlearner.njit.edu/costs>.

## CAN THE GRADUATE CERTIFICATE CREDITS BE APPLIED TO AN ADVANCED DEGREE?

Courses in the Graduate Certificate program in Data Mining can be wholly applied to NJIT's MS in Computer Science or MS in Information Systems.

## HOW DOES THE GRADUATE CERTIFICATE PROGRAM WORK?

In any given year, NJIT offers a new slate of Graduate Certificates, each in a specific area which is in a fast growing and employable profession. 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 in whole or in part online. The straightforward and rapid admissions process requires possession of an undergraduate degree with a satisfactory grade point average. A GRE or GMAT score is not a pre-requisite. Depending on the program, courses can be taken online, on campus, or at NJIT extension sites around New Jersey. 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 the Division of Continuing Professional Education.

## ON THE WEB:

<http://www.njit.edu/gradcert> / <http://twitter.com/njitcpe>

## APPLY ONLINE:

<http://adultlearner.njit.edu/admissions>