Graduate Certificates in Data Science

A graduate certificate will generally take less time and cost less money than a master's degree. This makes certificate programs in data science an attractive option if you have limited resources, or want to get a taste for data science before committing to more long-term study.

More specialized certificate programs—those in urban informatics, for example — may appeal to you if you're already working in data science, or want to add a concentration to a master's degree you're currently pursuing.

Why a Certificate?

Post-baccalaureate certificates typically provide a relatively quick way to get up to speed in a specialized or job-specific field of study. They're common in a number of fields, like business and cyber-security, and it's no different in data science.

Reasons to pursue a graduate certificate in data science or a related specialty include:

- **You want to advance in your current job.** Maybe you're a financial, business, or systems analyst keen to master the latest data analysis methods. Or a computer scientist or statistician itching to dig into big data. Or a manager interested in harnessing data science to improve business performance. A certificate in data science or a related specialty could provide just the tools you need.
- **You want to switch careers (or you're just starting out).** In a world awash in data, those who can make sense of it are in demand. Whether you're fresh out of college with some statistics and computer programming under your belt or mid-career but looking for a change, why not aspire to what the Harvard Business Review called "the sexiest job of the 21st century," data scientist? Certificate programs provide a flexible, low-risk way for you to explore this career path. In many cases, credits earned for a certificate can be applied toward a master's degree, should you decide later on to delve into data science more deeply.
- **You want to specialize.** Some certificate programs are designed to be completed in addition to a master's program, to give you more experience with and in-depth understanding of a subfield of data science. Some students enroll in such certificate programs while still pursuing their master's degrees; others wait until afterward.

Graduate certificates in data science may be general ("data science") or specific (e.g., "urban informatics," "business analytics"). General certificates are more likely to suit your needs if you're a recent graduate or someone looking to break into data science from a different field. If, on the other hand, you work or have a degree in data science already, consider the more specialized programs.

Courses

Certificate programs vary in the number of courses they require — generally between three and seven — and the extent to which you can tailor the curriculum to fit your interests. A few programs require students to complete a consulting project or other capstone.

Typical courses include:

- Statistical Methods for Data Science
- Data Mining
- Machine Learning
- Information Visualization
- Metadata
- Database Management Systems

Many certificate programs in data science require a bachelor's degree in computer science, statistics, mathematics, engineering, or a related field, though in some cases relevant work experience will suffice. Familiarity with databases, programming languages, and/or statistics will give you a leg up.

Other Things to Think About

Ready to pursue a certificate in data science? Be sure you don't ignore:

- **Cost.** While the sticker price of a certificate may be lower than that of a master's degree, it's harder to qualify for financial aid as non-degree student. Students enrolled in graduate certificate programs may qualify for student loans, but only if the university has sought and secured U.S. Department of Education approval for that specific program. So, read the small print carefully and, when in doubt, barrage program contacts with questions.
- **Transferability.** Ask yourself whether a certificate alone will meet your educational needs. If there's a possibility you'll want to pursue a master's degree eventually, make sure you choose a certificate program in which the courses you take can be applied toward that more advanced degree.

School Listings

We found 86 universities in our directory offering graduate certificate programs in data science and related specialties. If you represent a university and would like to contact us about editing any of our listings, or adding new programs, please send an email to info (at) mastersindatascience.org.

CAPELLA UNIVERSITY

MINNEAPOLIS, MINNESOTA

OFFERED BY: School of Business and Technology
DELIVERY: Online
LENGTH: 15 credits

Capella University has an online Graduate Certificate in Business Intelligence that students can complete in as

JOHNS HOPKINS UNIVERSITY

BALTIMORE, MARYLAND

Online Post-Bachelor's Certificate in Government Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Advanced Academic Programs
DELIVERY: Online
LENGTH: 5 courses

Johns Hopkins University offers a Graduate Certificate in Government Analytics that is appropriate for students seeking a stand-alone credential in government analytics and for applicants who want to supplement a related master's degree, such as one in government, public management, or global security studies. The degree can be earned entirely online with classes delivered in a convenient, asynchronous format. The curriculum includes five courses and allows students to develop a specialty area such as advanced statistics, geospatial analysis, public policy analysis, or political behavior. Applicants are not required to have a background in quantitative methods. Admission is open to students from diverse academic backgrounds. Students who take two classes per term can complete the certificate in about three semesters.

Northeastern University

NORTHEASTERN UNIVERSITY

BOSTON, MASSACHUSETTS

Graduate Certificate in Data Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: College of Computer and Information Sciences
DELIVERY: Online
LENGTH: 4 credits

Certificate in Data Science/Analytics Online

Click here to see the full list of on-campus programs instead.

BOSTON UNIVERSITY

BOSTON, MASSACHUSETTS

Applied Business Analytics Graduate Certificate

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Metropolitan College
DELIVERY: Online or On Campus
LENGTH: 16 Credits

Students enrolled in Boston University's online program leading to an Applied Business Analytics Graduate Certificate can complete the program in nine months. The program includes four courses, each awarded four credits. Before taking one of the required courses, students must take a pre-analytics laboratory, a non-credit, hands-on laboratory that is offered in an online format over a seven-week period. Students are also required to pass a prerequisite course in mathematics for management or pass a waiver test, and online students must complete an online math tutorial. Applicants must have a bachelor's degree and must submit a graduate application. Students must be admitted into the program to receive credit toward the certificate.

Data Analytics Graduate Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Metropolitan College
DELIVERY: Online or On Campus
LENGTH: 16 Credits

Boston University's Metropolitan College has introduced a new online Data Analytics Graduate Certificate that students can complete in eight to 12 months. The program consists of four required courses for a total of 16 credits. Applicants must have a bachelor's degree in a technical field and must take a prerequisite course in quantitative methods for information systems. Students also might have to take prerequisite courses before enrolling in some of the courses required in the curriculum. Applicants have the opportunity to take a waiver test through the Department of Computer Science to prove proficiency in a subject if they do not have an academic record for certain classes.

CALIFORNIA STATE UNIVERSITY-FULLERTON

FULLERTON, CALIFORNIA

Certificate in Data Science

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: University Extended Education
DELIVERY: Online
LENGTH: 5 courses
PRE-REQUISITE TECHNICAL COURSEWORK: technical bachelor's degree

California State University Fullerton offers an online Certificate in Data Science through its Professional Development, University Extended Education program. The certificate program includes five courses and consists of 99 hours of lecture and discussions, resulting in 9.9 Continuing Education Units for students who earn the certificate. Applicants should have a bachelor's degree in computer science, applied statistics, engineering, math, physics, or natural sciences. Alternately, applicants can show they have at least three years of professional experience in a field such as data analysis, business analytics or intelligence, software engineering or programming. Courses are offered online in the spring, summer and fall. The program's advisory board includes representatives from IBM, Wells Fargo, and Gravity.com as well as from CSUF.

CENTRAL CONNECTICUT STATE UNIVERSITY

NEW BRITAIN, CONNECTICUT

Graduate Certificate in Data Mining

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Department of Mathematical Sciences
DELIVERY: Online
LENGTH: 18 credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

Central Connecticut State University offers a five-course, 18-credit program leading to a Graduate Certificate in Data Mining that can be completed entirely online, with no requirement to go to campus. Applicants to the program must have a bachelor's degree with a GPA of at least 3.0. Additionally, applicants must have passed at least two semester courses in statistics at the undergraduate or graduate level. Students who start the graduate certificate program may transfer the credits to the Master of Science in Data Mining, but they must submit a separate application for that degree program. The CCSU faculty has broad experience in data mining in fields such as text mining, web mining and genomics. Faculty members have written five books on the subject of data mining.

COLORADO STATE UNIVERSITY-GLOBAL CAMPUS

GREENWOOD VILLAGE, COLORADO

Certificate in Business Intelligence

HOW TO APPLY	CURRICULUM	COST

DELIVERY: Online
LENGTH: 12 credits

Colorado State University's Global Campus offers an online Graduate Certificate in Business Intelligence with no requirements to attend any face-to-face sessions. To earn the certificate, students must complete four graduate-level courses totaling 12 credits. In the program, students learn how to collect and analyze statistical information, spot trends, make projections, and use data to drive strategic plans. Students have the option of earning a stand-alone graduate certificate to increase their skill sets and earning potential, or of using the specialization to customize a

master's degree. The business intelligence specialization is available with nine Global Campus master's programs, including those leading to a master's in management, criminal justice, finance, information technology management, and health care administration.

DREXEL UNIVERSITY
PHILADELPHIA, PENNSYLVANIA

Certificate in Healthcare Informatics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Drexel University's Institute for Healthcare Informatics
DELIVERY: Online
LENGTH: 9 credit hours

Drexel University's College of Computing and Informatics offers an online Certificate in Health Care Informatics that is designed for information professionals, clinical personnel and health care support staff. Students who complete the program will have an understanding of health information technology and will be better able to serve as a liaison to between health care professionals and information professionals. Applicants to the program must have a bachelor's degree and must submit a statement of purpose explaining how the certificate will help them to achieve their professional goals. The curriculum includes three graduate-level classes that are delivered fully online.

ELMHURST COLLEGE
ELMHURST, ILLINOIS

Graduate Certificate in Data Science

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Elmhurst College Online Center
DELIVERY: Online
LENGTH: 15 semester hours
PRE-REQUISITE TECHNICAL COURSEWORK: statistics, computer science

Elmhurst College offers a Graduate Certificate in Data Science that students can complete entirely online. The curriculum includes five courses from the college's Master of Science in Data Science program, with four required courses and one elective. Students can complete the

program in one year. Individuals who wish to earn the certificate may enroll as non-degree students. Students who earn the certificate may use the credits toward the M.S. in Data Science and complete the degree by taking five additional courses. However, students who want to earn the master's must meet the admission requirements for that degree, including prerequisite courses in statistics and computer science and at least a year of professional experience.

HAWAII PACIFIC UNIVERSITY
HONOLULU, HAWAII

Professional Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: HPU College of Business Administration
DELIVERY: Online
LENGTH: 12 credits

Hawaii Pacific University offers a Professional Certificate in Business Analytics designed for working professionals who want to learn more about how information systems and business analytics can make their company more competitive. Classes for the program are available in an online format. To earn the certificate, students must complete four classes covering topics such as big data, business analytics, and data mining for business intelligence. Applicants to the certificate program must have an undergraduate degree with a GPA of at least 2.7. Students must meet any prerequisites set for any of the classes included in the curriculum for the certificate.

INDIANA UNIVERSITY BLOOMINGTON
BLOOMINGTON, INDIANA

Online Certificate in Data Science (Graduate)

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: School of Informatics and Computing
DELIVERY: Online
LENGTH: 1 semester

Indiana University Bloomington offers an online Certificate in Data Science that provides students a flexible option to tailor coursework to meet their interests or career goals. Completing the certificate requires students to take four courses, which can be selected from a broad range of approved courses offered in topics such as data analysis, health and medicine, cloud computing and high-performance computing. IU's data science program offers a technical path and a path for decision makers. Applicants must include three letters of recommendation, although those with a technical background only need to submit one recommendation. Applicants must also submit college transcripts, a resume and a statement of purpose.

KANSAS STATE UNIVERSITY

MANHATTAN, KANSAS

Applied Statistics Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: K-State Graduate School
DELIVERY: Online
LENGTH: 15 credit hours

Students and professionals who need to develop a background in statistics can earn an online Graduate Certificate in Applied Statistics through Kansas State University. The curriculum requires students to complete at least five graduate-level courses, which can be selected from eight courses offered by the Department of Statistics. Students are allowed to apply up to three credits in coursework taken in another department or at another university toward the certificate. Applicants must have a bachelor's degree with a GPA of 3.0 or higher earned in upper-division coursework. Students can enter the program in the fall, spring, or summer semester.

KENNESAW STATE UNIVERSITY

KENNESAW, GEORGIA

Certificate in Statistical Analysis using SAS

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Department of Statistics and Analytical Sciences

DELIVERY: Online
LENGTH: 12 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

Online Certificate in Applied Statistics using R

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Department of Statistics and Analytical Sciences
DELIVERY: Online
LENGTH: 15 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

Online Certificate in Applied Statistics using SAS

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Department of Statistics and Analytical Sciences
DELIVERY: Online
LENGTH: 15 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

MARIST COLLEGE
POUGHKEEPSIE, NEW YORK

Advanced Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: School of Computer Science and Mathematics
DELIVERY: Online
LENGTH: 12 credits

Marist College offers an online Advanced Certificate in Business Analytics that is designed to provide students with a background in data analysis and business intelligence. Students also gain hands-on experience with current software and analytics tools. The program is intended for professionals in fields such as marketing and advertising, health care administration, finance, business strategy, or research. A technology or computer science background is not expected. Applicants must have an undergraduate degree and should have passed an introductory statistics course, at the minimum. GRE scores are not required. Admission decisions are based on an applicant's undergraduate academic performance, work

experience, recommendations, and personal essay. Students are admitted to the program in the spring or fall semester.

MICHIGAN STATE UNIVERSITY

EAST LANSING, MICHIGAN

Master Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Eli Broad College of Business
DELIVERY: Online
LENGTH: 3 Courses

MISERICORDIA UNIVERSITY

DALLAS, PENNSYLVANIA

Health Care Informatics Graduate Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: College of Health Sciences
DELIVERY: Online
LENGTH: 18 credits

Misericordia University offers a Graduate Certificate in Health Informatics that is designed for mid-career health professionals who want to gain skills in health care information. The program is delivered online and is aimed at applicants who already work in the informatics area of health care. The program requires students to complete 18 credits, with five required three-credit courses and an additional course that students select from two options: project management or health care systems analysis and design. The program can be completed in as little as one year. Students who complete the program may be eligible to use the credits towards Misericordia's master's program in health informatics

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

ROLLA, MISSOURI

Graduate Certificate in Business Analytics and Data Science

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Department of Business and Information Technology
DELIVERY: Online
LENGTH: 12 credit hours

Missouri S&T offers an online program leading to a Graduate Certificate in Business Analytics and Data Science that requires students to complete four courses. There are two required courses, one offered each spring and one each fall. Students select two more courses from a list of restricted electives. The program is open to students who have a bachelor's degree or higher in areas such as technology, engineering, science, the social sciences or business, although they must have the prerequisite knowledge required for each class. Students who successfully complete all four classes with a B average or higher are eligible to enter the MBA program or the Master of Science in Information Science and Technology program, with the certificate courses counting towards the degree.

NEW JERSEY INSTITUTE OF TECHNOLOGY

NEWARK, NEW JERSEY

Graduate Certificate in Data Mining

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Department of Computer Science
DELIVERY: Online
LENGTH: 12 credits
PRE-REQUISITE TECHNICAL COURSEWORK: computer science, statistics, math

The New Jersey Institute of Technology offers a Graduate Certificate in Data Mining that adult learners can complete entirely through online classes. On average, students complete the four-course program in a year. Applicants to the program must have an undergraduate degree and

should have undergraduate coursework or equivalent knowledge in calculus (two semesters), probability and statistics, and a variety of computer science classes, including computer architecture, operating systems, networks, and database system design and management. Some of the courses have prerequisites and must be taken in order. Students who complete the certificate in data mining may apply the credits toward NJIT master's programs in computer science, information systems, or business and information systems.

NORTHWESTERN COLLEGE
ORANGE CITY, IOWA

Analytics Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Adult and Graduate Studies
DELIVERY: Online
LENGTH: 18 credits
PRE-REQUISITE TECHNICAL COURSEWORK: math, statistics, computer science

Northwestern College offers a Certificate in Analytics that students can earn completely online with no need to go to campus. The curriculum requires students to complete six courses. The college offers the courses in an eight-week format, and classes are delivered asynchronously. Students take one course at a time and complete two courses in a semester, so they finish coursework for the certificate in one year. Applicants should have a bachelor's degree and should have completed undergraduate classes in statistics, calculus and at least one computer science class that required programming. Work experience can be substituted for the undergraduate courses. Students may enter the program at three points per year, in August, January or May.

NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS

Certificate in Analytics and Business Intelligence for IT Professionals

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: School of Professional Studies
DELIVERY: Online
LENGTH: 4 courses

Northwestern University offers an online program leading to an Advanced Graduate Certificate in Analytics and Business Intelligence for IT Professionals. Applicants must have a graduate degree, although it does not have to be in IT. The program prefers that students have at least three to five years of professional experience in a related field. Additionally, applicants should have taken classes in calculus and linear algebra and have training or experience in relational databases. The curriculum includes four courses, and students who have already taken equivalent classes may be allowed to select another course in the field to replace that class. Credits earned in the certificate program cannot be transferred to the corresponding graduate degree program. Students may enter the program any quarter.

Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: School of Professional Studies
DELIVERY: Online
LENGTH: Four courses

Northwestern University's School of Professional Studies offers an online program leading to a certificate in business analytics. The program is designed for professionals in analytics who want to take on a management or leadership role by learning how analytics can help drive business decisions and competitive advantage. The curriculum includes four courses, three of which should be taken in a specified order. All classes are offered online in an asynchronous format, but some classes include live sessions. There is no formal admission process or specified prerequisites for this certificate program, and the classes are non-credit and cannot be transferred into any degree program. Students learn to use R and other data-focused tools in the program.

NOVA SOUTHEASTERN UNIVERSITY

FORT LAUDERDALE, FLORIDA

Graduate Certificate in Business Intelligence / Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Graduate School of Computer and Information Sciences
DELIVERY: Online
LENGTH: 15 credits

Nova Southeastern University's College of Engineering and Computing offers a Graduate Certificate in Business Intelligence/Analytics that students can complete online with no need to come to campus. Applicants to the program should have a bachelor's degree in an area such as management information systems, computer information systems, IT, business administration or a related field. Applicants should have an undergraduate GPA of at least 2.5 and should have experience in computer applications. The curriculum includes five courses, with the final course being a capstone project that requires students to develop a business intelligence application that results in measurable benefits to an organization. Students can enter the program I the fall, spring, or summer term and complete the certificate in about 18 months.

OKLAHOMA STATE UNIVERSITY-MAIN CAMPUS
STILLWATER, OKLAHOMA

Graduate Certificate in Business Data Mining

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Spears School of Business
DELIVERY: Campus or Online
LENGTH: 12 Credit Hours

Oklahoma State University's Watson Graduate School of Management offers a Graduate Certificate in Business Data Mining designed for working professionals who want to acquire skills in data mining and analytics without pursuing a master's degree. Students can complete the program entirely online. Applicants should have a bachelor's degree in business, engineering, computer science or other STEM field and must submit transcripts of previous college work. Students may enter the program in the fall or spring semester. To earn the certificate, students must complete at least 12 credit hours, with two required courses and the rest of the credits in electives. Students may be able to transfer the credits to the Master of Science in Business Analytics.

Graduate Certificate in Marketing Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Spears School of Business
DELIVERY: Campus or Online
LENGTH: 12 Credit Hours

The Watson Graduate School of Management at Oklahoma State University offers a completely online program leading to a Graduate Certificate in Marketing Analytics. Students who complete the program will also receive the SAS and OSU Marketing Analytics Certificate. The program is open to applicants who received a bachelor's degree in any subject with a minimum GPA of 2.5. Additionally, applicants must have at least two years of professional experience. The curriculum requires students to complete a minimum of 12 credit hours. Two core classes are required, along with at least two electives, which students can select to tailor their education to meet their career interests.

PENNSYLVANIA STATE UNIVERSITY-WORLD CAMPUS

UNIVERSITY PARK, PENNSYLVANIA

Graduate Certificate in Applied Statistics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Eberly College of Science
DELIVERY: Online
LENGTH: 12 credits

Penn State's World Campus and Eberly College of Science offer an online Graduate Certificate in Applied Statistics designed for professionals who want to gain skills in statistical analysis and learn industry software such as Minitab, R and SAS. Applicants should have a bachelor's degree with a minimum GPA of 3.0. Applicants should have completed at least one undergraduate course in statistics and should know matrix and linear algebra. GRE or GMAT test scores are not required for admission to this program. To earn the certificate, students must complete 12 credits, including two required courses and two electives selected based on career goals. The certificate can be a stand-alone credential or used as a first step towards a master's degree.

Graduate Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Smeal College of Business
DELIVERY: Online
LENGTH: 9 credits

Penn State online offers a Graduate Certificate in Business Analytics that requires three courses, with each course taught one semester each year. All students enter the program in the fall semester. Applicants must have a bachelor's degree with a GPA of at least 3.0. While no major is specified, applicants must have knowledge or experience in a quantitative field such as science, engineering or business. The admission committee looks at previous coursework and work experience when considering applicants with degrees outside those areas. Applicants must be familiar with applied statistics, either through coursework or work experience. Students may submit GMAT or GRE scores to help build a case for admission. Credits from this certificate can be applied to the Master of Science in Data Analytics.

PURDUE UNIVERSITY

WEST LAFAYETTE, INDIANA

Certificate in Applied Statistics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Department of Statistics
DELIVERY: Online
LENGTH: 12 credit hours (4 courses)

Purdue University's Department of Statistics has an online Graduate Certificate in Applied Statistics designed for scientists in any field who want to acquire an in-depth background in statistics. The coursework is also appropriate for people in industry who want to increase their understanding of statistics. Applicants must have an undergraduate degree with a GPA of at least 3.0. The curriculum includes four courses, or 12 credits, in statistics classes. Before beginning the program, students must meet the prerequisite of coursework in statistical methods and in applied regression analysis, which may be met by taking two classes through Purdue or by equivalent coursework.

REGIS UNIVERSITY

DENVER, COLORADO

Graduate Certificate in Data Science

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: College of Computer and Information Sciences
DELIVERY: Online
LENGTH: 12 credit hours

The Graduate Certificate in Data Science offered by Regis University uses the Hadoop ecosystem of software products for practical, hands-on assignments. Coursework is delivered online in eight-week sessions. Applicants must have a bachelor's degree, and while no specific major is required, students who enter the certificate program will need to have knowledge or experience in database applications, computer networking, programming, and system design and analysis. The admissions committee will assess each student's background in these areas and may require prerequisite classes. Applicants must submit official college transcripts, a resume, and an admission essay. They may be interviewed by faculty. The curriculum includes four courses, for a total of 12 credit hours.

ROCHESTER INSTITUTE OF TECHNOLOGY

ROCHESTER, NEW YORK

Advanced Certificate in Applied Statistics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: College of Science
DELIVERY: Campus or Online
LENGTH: 12 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: math, statistics

Rochester Institute of Technology offers an online option for students who want to earn an Advanced Certificate in Applied Statistics. The program is appropriate for scientists, engineers, analysts and other professionals who need a statistical background for their work. Applicants must have a bachelor's degree with a GPA of 3.0 and must

show a background in math and statistics, including two courses in probability and statistics. GRE scores are not required but students may submit them if the scores strengthen their applications. Before entering the program, students need to be familiar with Minitab, R, or SAS statistical software. The curriculum includes two required courses plus electives for a total of 12 credits.

SAN JOSE STATE UNIVERSITY

SAN JOSE, CALIFORNIA

Online Business Analytics Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Lucas Graduate School of Business
DELIVERY: Online
LENGTH: 12 units
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

San Jose State University offers a Certificate in Business Analytics designed for business professionals and graduate students interested in data-driven decisions in any area of business. The program can be completed entirely online in less than a year. Applicants should have a bachelor's degree with a GPA of 3.0 in their upper division coursework, and no applicants with a GPA under 2.5 will be considered. Before entering the program all students must have completed a college-level statistics course. To complete the certificate, students must pass four required courses, which are delivered in an eight-week asynchronous format. Students may enter the program in the fall or spring semester. Students might be permitted to apply the credits to a degree program at San Jose State.

STANFORD UNIVERSITY

STANFORD, CALIFORNIA

Data Mining and Applications Graduate Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Center for Professional Development

DELIVERY: Online
LENGTH: 9 units of credit
PRE-REQUISITE TECHNICAL COURSEWORK: math

Stanford's Center for Professional Development offers an online Graduate Certificate in Data Mining and Applications that is designed for strategy managers, medical and scientific researchers, data analysts, social science researchers, and advertising and marketing personnel. The certificate requires students to complete three courses, beginning with a course in data mining that they must complete with a grade of B-plus or higher to stay in the program. Applicants must have a bachelor's degree with a GPA of 3.5 or higher. Prerequisites include at least one undergraduate course each in statistics or probability, linear algebra, and computer programming. Students typically complete the certificate in one to two years; they are required to do all the work within three years.

Mining Massive Data Sets Graduate Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Center for Professional Development
DELIVERY: Online
LENGTH: 12-15 units
PRE-REQUISITE TECHNICAL COURSEWORK: computer science

Stanford's Center for Professional Development offers a four-course Graduate Certificate in Mining Massive Data Sets designed for professionals who work with large amounts of raw data, such as software engineers, statisticians, predictive modelers, data miners, and those who perform market research and analytics. Applicants should have an understanding of basic computer science principles and be able to write "a reasonably non-trivial" computer program. Prerequisites include understanding algorithms, data structures, linear algebra, and basic probability theory. A background in computer systems, artificial intelligence, statistics, or database systems is suggested. Students may enter the program in any academic quarter that a relevant course is offered online. On average, students complete the certificate in one to two years.

SYRACUSE UNIVERSITY
SYRACUSE, NEW YORK

Certificate of Advanced Study in Data Science

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: School of Information Studies
DELIVERY: Online
LENGTH: 15 credits

Students seeking the Certificate of Advanced Study in Data Science through Syracuse University's School of Information Studies can specialize in data analytics, data storage and management, data visualization, or general systems management. Students can complete the program entirely online, and they may pursue the certificate as full-time or part-time students. Applicants must have a bachelor's degree (no major is specified) and must submit official transcripts. A personal statement and resume are required, but applicants do not need to submit GRE scores. The curriculum includes 15 credits, with six credits in core required classes and nine credits from electives, which may be selected from a variety of areas to suit a student's specialization. Students may enter the program in the fall, spring, or summer semester.

TEXAS A & M UNIVERSITY-COLLEGE STATION

COLLEGE STATION, TEXAS

Graduate Certificate in Statistics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Department of Statistics
DELIVERY: Online
LENGTH: 12 Credits

THE UNIVERSITY OF TEXAS AT DALLAS

RICHARDSON, TEXAS

Graduate Certificate in Business Intelligence and Data Mining

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Naveen Jindal School of Management
DELIVERY: Online
LENGTH: 12 Credits

UNIVERSITY OF ARIZONA

TUCSON, ARIZONA

Business Intelligence & Analytics (Certificate NDP)

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Management Information Systems (MIS) Department, in association with t
DELIVERY: Online
LENGTH: 9 credits

The University of Arizona offers a Graduate Certificate in Business Intelligence & Analytics (Certificate NDP) that can be completed entirely online. The program is designed for IT professionals, business analysts, project managers, marketing analysts, researchers, and others whose job involves analyzing data for business decisions. Applicants should have a bachelor's degree with a GPA of 3.0 or higher, although students with a lower GPA may be granted probationary admission. Standardized test scores are not required for this program. The curriculum includes three courses, for a total of nine credits, and students are required to maintain a 3.0 GPA to complete the certificate.

UNIVERSITY OF ARKANSAS AT LITTLE ROCK

LITTLE ROCK, ARKANSAS

Graduate Certificate in Data Science

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Department of Information Science
DELIVERY: Online
LENGTH: 12 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: bachelor's degree, statistics

The Department of Information Science at the University of Arkansas at Little Rock offers a Graduate Certificate in Data Science designed for professionals seeking basic training in data science. The 12-credit program is offered online. Lectures are webcast live from the on-campus class meeting, held on weekday evenings, and also recorded for later viewing. The certificate program is open to anyone with a bachelor's degree, although the university

recommends a background in computer programming, database concepts, and statistics, or professional experience in information analysis. Students seeking regular admission to use the certificate as a stepping stone to a master's degree must have an undergraduate GPA of 3.0 and prerequisite courses in object-oriented technology, database concepts, and statistical methods.

UNIVERSITY OF CALIFORNIA-IRVINE

IRVINE, CALIFORNIA

Business Intelligence & Data Warehousing Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: UCI Extension School
DELIVERY: Online
LENGTH: 9 credits

The University of California, Irvine has an online Graduate Certificate in Business Intelligence & Data Warehousing offered through the Division of Continuing Education. The program is designed for data systems modelers, IT managers, business analysts, database administrators, data architects, and chief information officers whose job requires taking data from multiple databases or sources and combining them to generate reports and other information. Professionals who request this kind of data are also welcome in the program. The curriculum includes three classes, which must be taken in order. Members of the advisory committee for this program represent organizations such as Northrop Grumman, Pacific Life, Capital Group, Experian, and Numen Consulting.

Data Science Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: UCI Extension
DELIVERY: Online
LENGTH: 15 credits

The Division of Continuing Education at the University of California, Irvine offers an online Graduate Certificate in Data Science that provides students with basic skills needed for data science and allows practitioners to broaden their skills. The program is aimed at professionals in a variety of industries and job roles that involve understanding large amounts of data, such as data engineers, data analysts, business analysts, researchers,

statisticians, database administrators, and computer scientists. To earn the certificate, students must complete 15 credit units, with six required units and nine elective units. Students must complete all the requirements within five years. The Division of Continuing Education allows students to combine some credits to earn both the Data Science and Predictive Analytics certificates.

Predictive Analytics Certificate Program

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: UCI Extension School
DELIVERY: Online
LENGTH: 16 units

The University of California, Irvine offers an online program leading to a Graduate Certificate in Predictive Analytics. The program is designed for professionals in a variety of industries who want to use predictive analytics to improve business performance. The program is open to working professionals with backgrounds in areas such as business analytics, marketing, business intelligence, web analytics, data mining, and data warehousing. The curriculum includes five required courses and three electives, for at least 16 units or 160 hours of instruction. Students must complete all the work within five years of starting the program. The program advisory committee includes representatives from Abbott Analytics, Elder Research, Statsoft, Predictive Analytics World, and Digital Analytics.

UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS

Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Graham School
DELIVERY: Online
LENGTH: 4 Courses
PRE-REQUISITE TECHNICAL COURSEWORK: technical bachelor's degree

UNIVERSITY OF ILLINOIS AT CHICAGO

CHICAGO, ILLINOIS

Health Informatics (IBHE-Approved Certificate)

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: College of Applied Health Sciences
DELIVERY: Online
LENGTH: 24 hours minimum

The University of Illinois at Chicago offers an online IBHE-approved post-master's Certificate in Health Informatics. Applicants to the program must have a master's degree from an accredited school, and an MBA must be from a school accredited by AACSB International. Applicants must have a GPA of 3.0 or higher on terminal degree work and are required to submit official transcripts from all colleges attended. Additionally, applicants should have at least two years of work experience in a relevant industry. All applicants are interviewed by phone before a decision is made on acceptance. Applicants may be required to take three prerequisite classes. The curriculum for the certificate includes seven courses worth 24 credits.

UNIVERSITY OF ILLINOIS AT SPRINGFIELD

SPRINGFIELD, ILLINOIS

Graduate Certificate in Business Intelligence

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Department of Management Information Systems
DELIVERY: Online
LENGTH: 9 credits

The University of Illinois at Springfield has an online Graduate Certificate in Business Intelligence that students may earn as a stand-alone credential or as part of their work toward a Master of Science in Management Information Systems or another master's program. Applicants must have a bachelor's degree with a minimum GPA of 2.5. Applicants to the MIS program must have two

semesters of accounting classes, a semester of statistics, and the ability to program in a high-level language such as C++ or Java. To earn the certificate, students are required to complete three graduate level courses, which may have prerequisites of their own.

UNIVERSITY OF LOUISVILLE

LOUISVILLE, KENTUCKY

Certificate in Data Mining

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Department of Computer Engineering & Computer Science
DELIVERY: Online or Campus
LENGTH: 12 months
PRE-REQUISITE TECHNICAL COURSEWORK: technical bachelor's degree

The Department of Computer Engineering and Computer Science (CECS) at the University of Louisville offers an 18-credit Graduate Certificate in Data Mining that students can earn in an entirely online format in as few as 12 months. The curriculum includes three required CECS courses and three electives that students can select from a list of relevant math and CECS course offerings. Applicants must have a bachelor's degree in a technical field and must have had classes in probability and statistics, algebra, and discrete math. While knowledge of SAS and SAS Enterprise Miner are not listed as prerequisites, the department notes that these will be used in the coursework.

UNIVERSITY OF MAINE

ORONO, MAINE

Graduate Certificate in Information Systems

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: School of Computing and Information Science
DELIVERY: Online
LENGTH: 15 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: computer science, math

The University of Maine offers a Graduate Certificate in Information Systems that students can complete in an entirely online environment. The program requires students to complete five designated courses, which are offered frequently enough that a students can complete the certificate in two years. Students interested in the certificate must formally apply and follow the admissions requirements for the Master of Science in Information Systems program. Applicants should have a bachelor's degree with a 3.0 GPA and must submit GRE scores. Official transcripts and three letters of recommendation are also required. Students must complete work toward the certificate within six years.

UNIVERSITY OF MASSACHUSETTS AMHERST

AMHERST, MASSACHUSETTS

Graduate Certificate in Business Analytics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: College of Management
DELIVERY: Online
LENGTH: 18 Credits

The University of Massachusetts Boston offers a Graduate Certificate in Business Analytics through the College of Advancing and Professional Studies. The program is offered entirely online. The curriculum includes four three-credit courses, although students may be required to take prerequisite courses in statistical analysis and database management before beginning the classes needed for the certificate. Applicants must have a bachelor's degree, but no particular major is required, and at least three to five years of relevant work experience. Applicants must submit official college transcripts, a resume, statement of intent, and three letters of recommendation. Most of the courses offered by UMassOnline are delivered in an asynchronous format.

UNIVERSITY OF MASSACHUSETTS-BOSTON

BOSTON, MASSACHUSETTS

Graduate Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: College of Advancing & Professional Studies
DELIVERY: Online
LENGTH: 4 courses

The College of Management at UMass Boston has a Graduate Certificate in Business Analytics that students can complete in an entirely online format. The curriculum consists of four courses, although students may be required to take prerequisite courses in statistical analysis and database management, depending upon their work and academic background. The program is intended for professionals interested in business and decision analytics, and applicants should have at least three to five years of relevant work experience. Applicants must have a bachelor's degree, but no particular major is required. Applicants must submit official transcripts of all college work, a resume, three letters of recommendation, and a statement of intent. Standardized test scores are not required.

UNIVERSITY OF NEBRASKA-LINCOLN

LINCOLN, NEBRASKA

Business Analytics Graduate Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: College of Business Administration
DELIVERY: Online
LENGTH: 12 credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

The University of Nebraska-Lincoln offers an online program leading to a Graduate Certificate in Business Analytics. The certificate program is open to business professionals who want to learn about Big Data. Students in UNL's MBA program may take the classes for a specialization in business analytics, and other graduate students can use the courses for a minor in business analytics. The curriculum features four courses. The first course is offered in the spring, fall, and summer. Students may take the other three courses in any order. Applicants to the certificate program must have an undergraduate degree and must have passed an introductory course in

statistics at the undergraduate level. Students interested in the certificate program must complete the UNL application for graduate study.

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO
GREENSBORO, NORTH CAROLINA

Graduate Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: UNCG Bryan School of Business and Economics
DELIVERY: Online
LENGTH: 15 credit hours

The University of North Carolina Greensboro offers an online Graduate Certificate in Business Analytics that is designed so that professionals in all fields and business functional areas can increase their understanding of the tools and capabilities of business analytics. UNCG has partnered with SAS for this program, with SAS providing software for hand-on experience and instruction. Students are also able to use SAS materials through the Teradata University Network. Applicants must have a bachelor's degree, but no particular field of study is required. They must also submit official transcripts, a statement of purpose, resume, and three recommendations. The program has four required classes, all available online. Students may take optional electives, but they are only offered on campus.

UNIVERSITY OF PHOENIX
ALBUQUERQUE, NEW MEXICO

Graduate Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: College of Information Systems and Technology
DELIVERY: Online
LENGTH: 18 credits

The University of Phoenix's College of Information Systems and Technology offers an online program leading to a Graduate Certificate in Business Analytics. Students must complete 18 credits, which include both required courses and electives. Many of the courses for this program are aligned with various industry certifications, such as SAS Base Programmer Certification and some Oracle certifications, and the courses can also help students prepare for those certification exams. The University of Phoenix requires applicants to graduate programs to have a bachelor's degree with a GPA of at least 2.5. Applicants must submit official transcripts from all colleges attended.

UNIVERSITY OF ST FRANCIS
JOLIET, ILLINOIS

Graduate Certificate in Business Analytics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: College of Business and Health Administration
DELIVERY: Online
LENGTH: 12 credit hours

The University of St. Francis offers a Graduate Certificate in Business Analytics that requires students to complete four courses, for a total of 12 credits. Students who complete the certificate can apply the credits toward an MBA or Master of Science in Management from the University of St. Francis. Applicants to the certificate program must have an undergraduate degree with a GPA of 2.75 or higher and must submit an admission essay and two letters of recommendation. Applicants must have at least two years of full-time employment in a management position, although that requirement may be waived based on the applicant's GMAT scores.

UNIVERSITY OF WASHINGTON-SEATTLE CAMPUS
SEATTLE, WASHINGTON

Certificate in Data Science

HOW TO APPLY   COST

OFFERED BY: UW Department of Computer Science & Engineering
DELIVERY: Online
LENGTH: 9 credits

Students who enroll in the Certificate in Data Science program from the University in Washington end the eight-month program with an online competition to solve a real data science problem. The three courses for the program are offered online and must be taken in a prescribed order. Applicants must pass the university's data science qualifications assessment quiz (available online) and have a background in databases and SQL. Applicants should have at least a year of experience using a programming language such as Java, R, or Python. Applicants are also required to understand basic concepts of statistics and linear algebra. Students may enter the program in the autumn, winter, or spring quarter. The advisory board for this program include representatives from Microsoft, Amazon and Salesforce.

UNIVERSITY OF WISCONSIN-MILWAUKEE

MILWAUKEE, WISCONSIN

Online Graduate Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: The Lubar School of Business
DELIVERY: Online
LENGTH: 15 credits

The Lubar School of Business at the University of Wisconsin Milwaukee offers an online Graduate Certificate in Business Analytics. Applicants should have a bachelor's degree with a GPA of 2.75 or higher. Students can earn the certificate by itself or combine it with an MBA or Master of Science in Management from the Lubar School of Business. The 15-credit program has one required core course and a list of five courses that students can select their four electives from. The university may accept up to three transfer credits for this program. Students must complete all the work toward the certificate in three years.

Certificate in Data Science/Analytics On-Campus

Click here to see the full list of online programs instead.

BELLEVUE COLLEGE
BELLEVUE, WASHINGTON

Healthcare Data Analyst Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Bellevue College Continuing Education
DELIVERY: Campus
LENGTH: 227 hours
PRE-REQUISITE TECHNICAL COURSEWORK: computer science, math

BENTLEY UNIVERSITY
WALTHAM, MASSACHUSETTS

Graduate Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Graduate School of Business
DELIVERY: Campus
LENGTH: 12 credits

Graduate Certificate in Marketing Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Graduate School of Business
DELIVERY: Campus
LENGTH: 15 Credits

CALIFORNIA STATE UNIVERSITY-FULLERTON

FULLERTON, CALIFORNIA

Certificate in Health Care Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: University Extended Education
DELIVERY: Campus
LENGTH: 9 credits

CENTRAL MICHIGAN UNIVERSITY

MOUNT PLEASANT, MICHIGAN

Certificate in Data Mining

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Department of Mathematics
DELIVERY: Campus
LENGTH: 18 Credits

CLEVELAND STATE UNIVERSITY

CLEVELAND, OHIO

Graduate Certificate in Advanced Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Monte Ahuja College of Business
DELIVERY: Campus
LENGTH: 12-13 credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

Graduate Certificate in Strategic Business Analytics

[HOW TO APPLY]   [CURRICULUM]   [COST]

OFFERED BY: Monte Ahuja College of Business
DELIVERY: Campus
LENGTH: 12-13 credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

CUNY BERNARD M BARUCH COLLEGE

NEW YORK, NEW YORK

Advanced Certificate in Business Analytics of Large-Scale Data

[HOW TO APPLY]   [CURRICULUM]   [COST]

OFFERED BY: School of Business
DELIVERY: Campus
LENGTH: 15 hours/credits
PRE-REQUISITE TECHNICAL COURSEWORK: math, statistics

EASTERN MICHIGAN UNIVERSITY

YPSILANTI, MICHIGAN

Graduate Certificate in Healthcare Informatics

[HOW TO APPLY]   [CURRICULUM]   [COST]

OFFERED BY: College of Health and Human Services
DELIVERY: Campus
LENGTH: 18 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: technical bachelor's degree

FLORIDA ATLANTIC UNIVERSITY

BOCA RATON, FLORIDA

Graduate Certificate in Big Data Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: College of Business
DELIVERY: Campus
LENGTH: 12 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: technical bachelor's degree

FLORIDA STATE UNIVERSITY

TALLAHASSEE, FLORIDA

Graduate Certificate in SAS Programming and Data Analysis

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Department of Statistics
DELIVERY: Campus
LENGTH: 12 Credits

GEORGE MASON UNIVERSITY

FAIRFAX, VIRGINIA

Spatial Business Intelligence Graduate Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: School of Management
DELIVERY: Campus
LENGTH: 15 credits

GEORGE WASHINGTON UNIVERSITY

WASHINGTON, DISTRICT OF COLUMBIA

Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Institute for Integrating Statistics in Decision Sciences, (I2SDS)&com
DELIVERY: Campus
LENGTH: 9 credits

GEORGETOWN UNIVERSITY

WASHINGTON, DISTRICT OF COLUMBIA

Certificate in Data Science

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Center for Continuing & Professional Education
DELIVERY: Campus
LENGTH: 8 courses
PRE-REQUISITE TECHNICAL COURSEWORK: math,computer science

HARVARD UNIVERSITY

CAMBRIDGE, MASSACHUSETTS

Data Science Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Extension School
DELIVERY: Campus
LENGTH: 4 courses

INDIANA UNIVERSITY BLOOMINGTON

BLOOMINGTON, INDIANA

Business Analytics Certificate Program

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Kelley School of Business: Department of Operations and Decision Technologies
DELIVERY: Campus
LENGTH: 12 credit hours

KENNESAW STATE UNIVERSITY

KENNESAW, GEORGIA

Certificate in Data Mining

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Department of Statistics and Analytical Sciences
DELIVERY: Campus
LENGTH: 12 Credits

LOYOLA UNIVERSITY CHICAGO

CHICAGO, ILLINOIS

Certificate in Business Data Analytics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Quinlan School of Business
DELIVERY: Campus
LENGTH: 15 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

MICHIGAN TECHNOLOGICAL UNIVERSITY
HOUGHTON, MICHIGAN

Certificate in Data Science

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Non-Departmental
DELIVERY: Campus
LENGTH: 15 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: technical bachelor's degree, computer science, statistics

NEW YORK UNIVERSITY
NEW YORK, NEW YORK

Advanced Certificate in Applied Urban Science and Informatics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Center for Urban Science & Progress
DELIVERY: Campus
LENGTH: 12 credits
PRE-REQUISITE TECHNICAL COURSEWORK: math, statistic, computer science

Advanced Diploma in Healthcare Informatics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: School of Professional Studies: Health and Care Programs
DELIVERY: Blended
LENGTH: 13.5 Continuing Education Units

NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS

Certificate in Advanced Data Science

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: School of Professional Studies
DELIVERY: Campus
LENGTH: 12 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

PASCO-HERNANDO STATE COLLEGE

NEW PORT RICHEY, FLORIDA

Healthcare Informatics Specialist Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Health and Information Technology
DELIVERY: Campus
LENGTH: 18 credit hours
PRE-REQUISITE TECHNICAL COURSEWORK: computer science

PENNSYLVANIA STATE UNIVERSITY-PENN STATE GREAT VALLEY

MALVERN, PENNSYLVANIA

Graduate Certificate in Data Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: School of Graduate Professional Studies
DELIVERY: Campus
LENGTH: 15 Credits

ROCHESTER INSTITUTE OF TECHNOLOGY

ROCHESTER, NEW YORK

Advanced Certificate in Big Data Analytics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: College of Computing and Information Sciences
DELIVERY: Campus
LENGTH: 12 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: technical bachelor's degree, statistics, computer science

ROCKHURST UNIVERSITY

KANSAS CITY, MISSOURI

Data Science and Business Analytics Certificate

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Helzburg School of Management
DELIVERY: Campus
LENGTH: 12 credit hours
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

Data Science and Business Intelligence Certificate

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Helzberg School of Management
DELIVERY: Campus
LENGTH: 12 credits

RUTGERS UNIVERSITY

CAMDEN, NEW JERSEY

Post MBA Certificate in Analytics and Information Management

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Rutgers Business School
DELIVERY: Campus
LENGTH: 15 credits

SEATTLE UNIVERSITY
SEATTLE, WASHINGTON

Graduate Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Albers School of Business and Economics
DELIVERY: Campus
LENGTH: 15 credits
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

THE UNIVERSITY OF WEST FLORIDA
PENSACOLA, FLORIDA

Graduate Certificate in Data Science

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Department of Computer Science
DELIVERY: Campus
LENGTH: 15 Credits

TROCAIRE COLLEGE
BUFFALO, NEW YORK

Certificate in Healthcare Informatics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Healthcare Informatics
DELIVERY: Campus
LENGTH: 36 credits
PRE-REQUISITE TECHNICAL COURSEWORK: math,
biology

UNIVERSITY OF ARKANSAS
FAYETTEVILLE, ARKANSAS

Graduate Certificate in Business Analytics

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: Sam M. Walton College of Business
DELIVERY: Campus
LENGTH: 12 hours

UNIVERSITY OF COLORADO DENVER
DENVER, COLORADO

Graduate Applied Statistics Certificate

HOW TO APPLY	CURRICULUM	COST

OFFERED BY: College of Arts and Sciences: Department
of Mathematical and Statistical Sciences
DELIVERY: Campus
LENGTH: 13 hours
PRE-REQUISITE TECHNICAL COURSEWORK: statistics

UNIVERSITY OF DENVER
DENVER, COLORADO

Business Information and Analytics Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Daniels College of Business
DELIVERY: Campus
LENGTH: 16 credits

UNIVERSITY OF KANSAS

LAWRENCE, KANSAS

Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: School of Business
DELIVERY: Campus
LENGTH: 12 credits

UNIVERSITY OF MAINE AT FARMINGTON

FARMINGTON, MAINE

Certificate in Applied Statistics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Department of Mathematics and Statistics
DELIVERY: Campus
LENGTH: 15 credits
PRE-REQUISITE TECHNICAL COURSEWORK: math, statistics

UNIVERSITY OF MASSACHUSETTS AMHERST

AMHERST, MASSACHUSETTS

Certificate in Statistical and Computational Data Science

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: College of Information and Computer Sciences
DELIVERY: Campus
LENGTH: 15 Credits

UNIVERSITY OF MICHIGAN-ANN ARBOR

ANN ARBOR, MICHIGAN

Graduate Data Science (DS) Certificate Program

HOW TO APPLY | CURRICULUM | COST

OFFERED BY: Trans-Disciplinary
DELIVERY: Campus
LENGTH: 12 credit hours

UNIVERSITY OF MISSOURI-ST LOUIS

SAINT LOUIS, MISSOURI

Graduate Certificate in Business Intelligence

HOW TO APPLY | CURRICULUM | COST

OFFERED BY: Information Systems Department
DELIVERY: Campus
LENGTH: 18 hours

UNIVERSITY OF NEW HAMPSHIRE-MAIN CAMPUS

DURHAM, NEW HAMPSHIRE

Graduate Certificate in Analytics

HOW TO APPLY | CURRICULUM | COST

OFFERED BY: Graduate School
DELIVERY: Campus
LENGTH: 3 months

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

CHAPEL HILL, NORTH CAROLINA

Graduate Certificate in Public Health Informatics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: Gillings School of Global Public Health and School of Information and Library Science
DELIVERY: Campus
LENGTH: 12 credit hours

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

CHARLOTTE, NORTH CAROLINA

Graduate Certificate in Data Science and Business Analytics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: College of Computing and Informatics and the Belk College of Business
DELIVERY: Campus
LENGTH: 15 credit hours
PRE-REQUISITE TECHNICAL COURSEWORK: math, statistics

Graduate Certificate in Health Informatics

| HOW TO APPLY | CURRICULUM | COST |

OFFERED BY: College of Computing and Informatics, College of Health and Human Serv
DELIVERY: Campus
LENGTH: 15 credits

UNIVERSITY OF PITTSBURGH-PITTSBURGH CAMPUS

PITTSBURGH, PENNSYLVANIA

Business Analytics Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Joseph M. Katz Graduate School of
Business and College of Business Administration
DELIVERY: Campus
LENGTH: 10.5 Credits

UNIVERSITY OF SOUTH FLORIDA-MAIN CAMPUS

TAMPA, FLORIDA

Analytics and Business Intelligence Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Muma College of Business
DELIVERY: Campus
LENGTH: 12 credits

Graduate Certificate in Business Analytics

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Muma College of Business
DELIVERY: Campus
LENGTH: 12 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: bachelor's
degree

The University of South Florida offers a Graduate
Certificate in Business Analytics at its campus in Tampa.
The 12-credit program is designed for students who want a
job in business analytics. Applicants must have a
bachelor's degree with an undergraduate GPA of at least
3.0. They must meet prerequisites for a course in
statistics, one in marketing, and a graduate level course in
accounting if they choose Analytics in Accounting as one

of their electives. The curriculum includes two required core classes and two electives, selected from a list of three options. Candidates must complete all required work within one year. Up to 12 credits earned in this program may be applied to a graduate degree.

Graduate Certificate in Statistical Data Analysis

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: College of Arts and Sciences
DELIVERY: Campus
LENGTH: 15 Credits
PRE-REQUISITE TECHNICAL COURSEWORK: bachelor's degree

UNIVERSITY OF THE FRASER VALLEY

ABBOTSFORD, CANADA

Data Analysis Post-Degree Certificate

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Mathematics and Statistics
DELIVERY: Campus
LENGTH: 10 months

UNIVERSITY OF WASHINGTON-TACOMA CAMPUS

TACOMA, WASHINGTON

Certificate in Business Analysis

HOW TO APPLY   COST

OFFERED BY: Professional and Continuing Education
DELIVERY: Campus
LENGTH: 9 CEUs

Certificate in Business Intelligence

[HOW TO APPLY]   [CURRICULUM]   [COST]

OFFERED BY: UW Department of Computer Science &
Engineering
DELIVERY: Campus
LENGTH: 9 CEUs

VALPARAISO UNIVERSITY
VALPARAISO, INDIANA

Certificate in Applied Econometric and Data Science Foundations using SAS

[HOW TO APPLY]   [CURRICULUM]   [COST]

OFFERED BY: Department of Economics
DELIVERY: Campus
LENGTH: 4 courses

VILLANOVA UNIVERSITY
VILLANOVA, PENNSYLVANIA

Graduate Certificate in Applied Statistics

[HOW TO APPLY]   [CURRICULUM]   [COST]

OFFERED BY: Liberal Arts and Sciences
DELIVERY: Campus
LENGTH: 15 credits
PRE-REQUISITE TECHNICAL COURSEWORK: math

WORCESTER POLYTECHNIC INSTITUTE
WORCESTER, MASSACHUSETTS

Graduate Certificate in Data Science

HOW TO APPLY   CURRICULUM   COST

OFFERED BY: Data Science
DELIVERY: Campus
LENGTH: 15 credits

Graduate Certificate in Data Science

HOW TO APPLY   CURRICULUM   COST