BUSINESS ANALYTICS - M.S.

Ambassador Crawford College of Business and Entrepreneurship Department of Information Systems and Business Analytics www.kent.edu/business

About This Program

Unlock the power of data and advance your career with the M.S. degree in Business Analytics. Our program provides students with the knowledge and skills needed to leverage data analytics to make informed business decisions. With coursework designed to build proficiency in data analysis, data mining and data visualization, graduates are well-prepared to meet the demands of today's data-driven business environment. With our certificate, you'll be prepared to pursue a career in data analytics, business intelligence or consulting. Read more...

Contact Information

- Graduate Programs Office: crawfordgrad@kent.edu | 330-672-2282
- Academic Advisor. Tamere Massey | tmassey2@kent.edu | 330-672-1225
- Program Coordinator: Rouzbeh Razavi | rrazavi@kent.edu | 330-672-2282
- Connect with an Admissions Counselor. U.S. Student | International Student

Program Delivery

- Delivery:
 - Fully online
 - In person
- Location:
- Kent Campus

Examples of Possible Careers and Salaries*

Chief executives

- -10.0% decline
- 287,900 number of jobs
- \$185,950 potential earnings

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- \$98,230 potential earnings

General and operations managers

- 5.8% faster than the average
- 2,486,400 number of jobs
- \$103,650 potential earnings

Management analysts

- 10.7% much faster than the average
- 876,300 number of jobs
- \$87,660 potential earnings

Operations research analysts

- 24.8% much faster than the average
- 105,100 number of jobs
- \$86,200 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- \$92,270 potential earnings

Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics'

Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university¹
- Minimum 3.000 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Résumé
- Goal statement
- · Two letters of recommendation
- English language proficiency all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
 - Minimum 550 TOEFL PBT score
 - Minimum 79 TOEFL IBT score
 - Minimum 77 MELAB score
 - Minimum 6.5 IELTS score
 - Minimum 58 PTE score
 - Minimum 110 Duolingo English score
- ¹ Students entering the program are expected to have the requisite backgrounds in statistics, mathematics, computers and business required for the program. At a minimum, students should have general knowledge of inferential statistics, adequate general business knowledge, basic knowledge of business information systems and technologies and a solid understanding of algebra and general mathematics with some exposure to calculus. Students may fulfill deficiencies in these prerequisites by taking BA 24056, CIS 24053, MATH 11012, MGMT 24163 or equivalents as applicable. The business analytics program director may consider concurrent enrollment according to the strength of the student's baccalaureate curriculum

and preparedness and the courses proposed to be taken concurrently with the prerequisites.

Application Deadlines

- Fall Semester
 - Application deadline: March 15 (international student) and June 15 (domestic student)
- Spring Semester
 - Application deadline: October 1 (international student) and December 1 (domestic student)

Applications submitted after these deadlines will be considered on a spaceavailable basis.

Program Requirements

Title

Major Requirements

Code

Major RequirementsBA 54038ANALYTICS IN PRACTICEBA 64018QUANTITATIVE MANAGEMENT MODELINGBA 64036BUSINESS ANALYTICSBA 64037ADVANCED DATA MINING AND PREDICTIVE ANALYTICSBA 64060FUNDAMENTALS OF MACHINE LEARNINGBA 64061ADVANCED MACHINE LEARNINGBA 64082DATABASE MANAGEMENT AND DATABASE ANALYTICSMajor Electives, chover from the following:BA 54011SYSTEMS SIMULATIONBA 54050DATA VISUALIZATIONBA 54052TEXT ANALYSIS AND NATURAL LANGUAGE PROCESSINGBA 64092INTERNSHIP IN BUSINESS MODELSBA 64092GLOBAL SUPPLY CHAIN BUSINESS ANALYTICSCS 63015DATA MINING TECHNIQUESCS 63016BIG DATA ANALYTICSEMAT 61010ENTERPRISE ARCHITECTUREEMAT 61010ENTERPRISE ARCHITECTUREEMAT 64210DATA SCIENCEHI 60411CLINICAL ANALYSIS METHODS AND TECHNOLOGIESMGMT 64160LEADERSHIP AND ORGANIZATIONAL CHANGEMKTG 65057MARKETING RESEARCHCUlminating RequirementTENSHIP IN BUSINESS ANALYTICSBA 64092INTERNSHIP IN BUSINESS ANALYTICSOr BA 64099CAPSTONE PROJECT IN BUSINESS ANALYTICS	Code	me	Hours
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Minimum Total Credit Hours:	Minimum Total Cre	dit Hours:	30

Graduation Requirements

Minimum 30 credit hours required for the degree is the assumption that students do not have any unmet requirements they need to be successful in the program. The business analytics program coordinator may make further determination of a student's preparedness for the program and what prerequisite courses, if any, may be required.

Program Learning Outcomes

Graduates of the program will be able to:

- 1. Identify key characteristics of the business problem.
- 2. Identify opportunities and constraints of various data analytical frameworks and tools.
- 3. Formulate appropriate data analytic techniques to solve the business problem.
- 4. Perform necessary data preparation steps (retrieve, clean and manipulate data).
- 5. Demonstrate necessary theoretical knowledge and practical skills to implement several data-analytic frameworks using different tools.
- 6. Lead and work with teams to frame the business problem.
- 7. Convey in writing the outcomes of analytics for stakeholders.
- 8. Use visual outcomes of analytics to communicate orally effective messages for stakeholders.

Full Description

Credit

The Master of Science degree in Business Analytics provides students with a comprehensive knowledge of analytics that balances the technologies, analytical methods and business expertise needed to glean useful information from data to make strategic business decisions. The language of business today is dependent on information and data management, and the emergence of advanced technologies for capturing, preparing and analyzing data provides unprecedented opportunities for those with business analytics expertise that spans all industries and organizations.

Students in the Business Analytics major gain the technical, analytical, communication, decision-making and leadership skills needed to be successful business analysts. The curriculum includes integrative capstone analysis projects, and there is an internship option for additional professional development through the on-site Career Services Office.