Online Master of Science in Business Analytics

Nearly 2.5 quintillion bytes of data are produced every day.¹
What will you do with it?

Data science and analytics (DSA) is an evolving and expanding field that is expected to post more than 2.7 million job openings by 2020, and a mere two percent of those will be for traditional data scientist roles. The rest will demand diverse skill sets and span a variety of industries, and they will likely include roles such as:

- Business analyst
- Data analyst
- Financial analyst
- Business intelligence analyst
- Chief analytics officer
- IT project manager
- Marketing manager

¹ Retrieved on January 4, 2019, from domo.com/learn/data-never-sleeps-5?aid=ogsm072517_1&sf100871281=1
Build Success With High-Demand Data Skills

While DSA job titles vary widely, most pull from a single suite of related skills and competencies. Your specific skill mix can indicate where you might find success, whether in advanced data analytics, analytic management, functional analytics or data-driven decision-making.

Regardless of the job title you desire, consider what skills you may need to grow and sharpen to advance your data and analytics career.

Which Skills Are in High Demand?

Demand for the following data-centric skills increased between 17 and 40 percent in 2016:

- Data science
- Quantitative data analysis
- Data visualization
- A/B testing
- Machine learning

Refine your own data and analytics skills with the Online Master of Science in Business Analytics (MSBA) from William & Mary.


The Next Move for Women in Business Analytics

AUDREY LOW, MSBA ’19

Read More

Best Job in America!

Data scientist remained the #1 job in America in 2018, with data analyst, business analyst, analytics manager and other DSA roles making the top 50.


Ready to move forward with an MSBA?

Download an Application Checklist

Apply Today
Program Highlights

- 32 credits
- 8 core courses
- 4 technical prerequisites*
- 2 pre-program courses
- Finish in as few as 15 months**
- 100 percent online

*At the discretion of the institution, students with documented expertise in mathematics, statistics, computer science, business and economics, and other quantitative subjects can waive the four prerequisite courses. Speak with an Admissions Advisor at 844-234-4075 to learn more.

**Students who are required to complete the prerequisite courses can graduate in as few as 18 months.

A Foundation for Sustained Success

To ensure all students possess the same baseline skills in math, statistics and programming, our Online MSBA program begins with a set of four technical prerequisites:

- Probability and Statistics I
- R Programming
- Python Programming
- Linear Algebra for Business Analytics

With your technical foundation set, it's time to challenge your creative and analytical capabilities, and to start transforming mere facts and figures into strategic insights.

Download an Application Checklist

The Secret to Data Storytelling

“What do you do when you’re drowning in more information than the human brain can process?”

Read our blog to find out.
Built for Your Competitive Advantage

The Online MSBA has been crafted with an uncommon degree of care around the central program theme of business intelligence and analytics. This theme represents a two-pronged approach to a professional education in analytics, one that encompasses both the technical mastery of contemporary programming languages and digital tools and the business communication and strategy acumen required to lead in a data-driven role.

Technological Solutions to Complex Problems:
Throughout the Online MSBA program, you will receive hands-on experience working with powerful computing technologies used to tackle contemporary business’s most difficult analytical problems. Programming languages taught throughout the Online MSBA program include R, Python and SQL, and coursework covers best practices for database management, machine learning utilizing the Hadoop environment and Amazon Web Services, and more.

The Art of Persuasion, Backed by Data:
The Online MSBA has been built with the knowledge that even the most compelling conclusions reached through data analysis will fall flat if communicated poorly. Beginning with the introductory course “Competing Through Business Analytics,” the Online MSBA teaches students to use an array of data visualization tools and verbal and written communication strategies to make an impact on decision makers and stakeholders in any business setting.

The result? A robust, multifaceted skill set that can make you the data science and analytics professional that modern business demands.

View Our Curriculum
The 4 Pillars of Our Curriculum

Our rigorous 32-credit curriculum is designed to give students a competitive advantage in high-growth, high-impact roles across multiple contemporary fields. To help set you up for sustained success as a data science professional, the Online MSBA curriculum centers around four core pillars:

**Business Acumen:**
Aspects of business analytics relating to marketing, finance, economics, operations, supply chain and human resources management, and more

**Math Modeling:**
Aspects of data analysis, including probability distributions, descriptive and inferential statistics, optimization, and experimental design

**Computing Technologies:**
Data management, data analytics tools (Excel, data mining, business intelligence, etc.), programming and more

**Communicating With Impact:**
Communicate data insights clearly, coherently and compellingly to audiences less familiar with such technical materials

View Our Courses  Download an Application Checklist

Meet the Online MSBA Faculty Director

Dr. Joe Wilck, Ph.D., P.E. brings over a decade of experience teaching analytics, operations research and engineering to the Online MSBA at W&M. His research has been funded by the National Science Foundation, Department of Energy, Defense Advanced Research Projects Agency (DARPA) and North Carolina Department of Transportation, among others, and he is an active member of the Institute of Industrial and Systems Engineers (IISE), Institute for Operations Research and the Management Sciences (INFORMS), and Military Operations Research Society (MORS).

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It is not enough to just know business analytics methodologies. You and your organization need problem solvers who can take data from chaos to clarity.

JOE WILCK, MSBA FACULTY DIRECTOR
It’s Time to Reimagine Business Education

An MSBA Accessible Anytime, Anywhere

Within the W&M Connect mobile app, you can:

- Access course content on the go
- Participate in discussions with your fellow students and instructors
- Track your grades
- Receive course announcements from instructors
- Keep your calendar and schedule organized
- Stay up to date with W&M news and events
- Contact your Student Success Coordinator for support and assistance

Discover the W&M Online Experience

“In Competing Through Business Analytics, we developed essential skills—the ability to visualize data and to use it to persuade clients—that would serve us in class, our eventual jobs and, more pertinently, our job interviews.”

AUDREY LOW, MSBA ’19

5 Ways Big Data is Creating Smarter Cities

Read Our Blog to Learn More

Apply Today
Support for Your Student Journey

W&M supports Online MSBA students with a network of individuals and resources that are dedicated to your success in the program, including faculty, peers and cutting-edge technology. As part of this network, your dedicated Student Success Coordinator will contact you prior to your first day of class and will serve as a source of one-on-one support throughout the duration of your program.

In addition, you’ll have access to 24/7 technology support, academic advising, career services, and other student support services offered by William & Mary and the Raymond A. Mason School of Business.

Shape the Future of Modern Business With Us

William & Mary is the Alma Mater of the Nation. With a 300-year history of distinguished alumni that have included four U.S. presidents as well as national diplomats, members of Congress and business pioneers, we have helped shape generations of leaders.

Now, we invite you to join our revolutionary Raymond A. Mason School of Business and explore with us how innovation, integrity and hard work, coupled with the power of emerging technologies, can empower you to reshape the future of business and transform the world at large.

Welcome to the Raymond A. Mason School of Business.

Discover the History of W&M
Why Choose William & Mary?

#3 Best Business Professors⁴
#10 Top Public School⁵
#16 Best College for Veterans⁵
#38 National University⁵
#55 Best Business School⁶

Who Chooses the Online MSBA?

Our first Online MSBA cohort represents varied sociocultural, geographic and professional contexts. While some students come from highly technical professional backgrounds, others come from financial, educational and government fields.

Our First Cohort at a Glance*

Demographics

- 11 undergraduate institutions represented
- 30% U.S. minority
- 62% ages 26-45
- 54% VA resident

Work and Educational Background

- 3.3 average GPA (on a 4.0 scale)
- 5 years of work experience on average
- 15% W&M alumni
- 15% from the technology, financial services and educational services sectors

*Data derived from survey of 2018 entrants to the Online MSBA program.

Apply Today
Admissions Requirements

To qualify for admission to the Online MSBA program, applicants must have:

- A bachelor’s degree from a regionally accredited university
- Two years of professional work experience OR proof of business acumen

Qualified applicants must complete and submit the following:

- **Online application**, including:
  - Official academic transcripts
  - 2 letters of professional recommendation
  - Personal essay
- Application fee of $100 (nonrefundable; a fee waiver may be available)
- A bachelor’s degree from a regionally accredited university with a GPA of 3.0 or higher (on a 4.0 scale)
- GMAT/GRE scores (a waiver may be available for qualified applicants)
- Proof of English language proficiency (for non-U.S. citizens)
- Personal admission interview: Qualified applicants who have submitted and completed their application will be invited to schedule a personal admission interview. Interviews can be conducted on campus, via Skype or by telephone

Questions about applying?

[View Admissions FAQ]

Download an Application Checklist

Become the Backbone to 21st Century Business Decisions

With the W&M Online Master of Science in Business Analytics, you can build and refine the data science and analytics skills needed to capitalize on today’s greatest business opportunities. To learn more, visit us online or contact an Admissions Advisor at 844-234-4075.

[Apply Today]

online.mason.wm.edu/msba

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William & Mary
Raymond A. Mason School of Business
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