



Master of Science in Healthcare Analytics and Intelligence

Creating competitive advantages with healthcare analytics

The **Master of Science degree in Healthcare Analytics and Intelligence** is a 36 credit-hour degree program designed to prepare professionals with business knowledge and analytical skills to create data-driven solutions for complex problems in the health care system.

The STEM program customizes a business-oriented and analytics based curriculum and welcomes applicants who are data-savvy with a strong desire to pursue analytical roles in the healthcare industry.

Students have been hired as business analyst, operations analyst, manager, and consultant by pharmaceutical companies of AstraZeneca and Bristol Myers Squibb, healthcare systems such as Atlantic Health System and RWJB, health insurance companies including United Health and Optum, and health marketing companies such as Ti Health and Medidata.



Classes will be held at
100 Rockefeller Rd in
New Brunswick



business.rutgers.edu/healthcare-analytics-intelligence

Curriculum

The **Master of Science in Healthcare Analytics and Intelligence** curriculum comprises 36 credits and can be taken on a full-time or part-time basis or fast-tracked to finish in just one year. Hybrid inperson and online courses and evening classes allow great flexibility for busy schedules. The program blends quantitative and analytical skills in its core curriculum, and builds graduate-level business acumen in finance, marketing, management, all tailored towards healthcare around the core.



Faculty Profile: Xin (David) Ding



Professor Ding is an Assistant Professor in the Supply Chain Management Department and the Director of the MS in Healthcare Analytics and Intelligence program. His research and teaching

experiences include cost efficiency, quality improvement, patient experience, and patient safety. He has worked on research projects with Centers for Medicare and Medicaid Services, Agency for Healthcare Research and Quality, and Cancer Institute of New Jersey.

Program Highlights

- Learn data analytics in the context of health care
- Principles of value-based care are built into curriculum
- Maximize operational analysis knowledge with business acumen
- Formal mentorship with executives from industry
- Experiential learning with healthcare organizations
- Transfer/waive up to six credits for prior graduate degrees and work experience

Sample Curriculum

Healthcare Core:

- Healthcare Finance
- Healthcare Marketing
- Healthcare Services Management

Business Core:

- Lean Six Sigma
- Introduction to Project Management

Analytics & Intelligence Core*:

- Healthcare Analytics
- Business Data Management
- Healthcare Operations Analysis
- Data Analysis and Visualization
- Analytics for Business Intelligence
- Data Analytics and Decision Making

Internship:

- Optional Practical Training
- Industry Client Project

Electives**:

- Health Disparity
- Machine Learning
- Python Methodologies
- Business Communication
- Supply Chain Management Strategies

*Analytics and intelligence consists of 12 credits

**Electives consist of 6 credits

The Full curriculum can be customized with focuses on pharmaceuticals, general health care, and analytics.

Admissions

The cutting edge curriculum trains students to analyze operational, financial, and clinical data with analytical and programming tools, to provide data-driven decision support through artificial intelligence and business intelligence packages, and to interpret and visualize the results in meaningful ways.

Program Quick Facts

Program: Full-time | Part-time

Credits: 36 credits (12 courses)

Application Deadlines:

Domestic students: Spring: Jan 2 | Fall: Aug 1

International students: Spring: Oct 15 | Fall: April 15

GRE or GMAT: Requests for GMAT/GRE waivers will be considered by the program director on a case by case basis.

Course waiver: Up to six credits can be waived based on prior graduate level course work or at least 5 years' related working experience.

Program Costs based on 2022-2023 Tuition Rates*

(*additional university fees may apply):

Full Time: (12 credits/semester)

\$14,610.50 per semester (NJ Resident/semester)

\$25,364 per semester (Out of state/semester)

Part Time:

\$1,218 per credit (NJ Resident)

\$2,114 per credit (Out of state)

How to Apply

Apply online:

business.rutgers.edu/healthcare-analytics-intelligence/admissions

Please visit business.rutgers.edu to learn about upcoming information sessions and open houses.

Contact

Phone: 973-353-1234

Email: mshai@business.rutgers.edu

“The future of healthcare is data driven and the program at Rutgers Business School empowers you with both analytics and business management.”

– Dr. Ahmar Mehmood,
Faculty practice manager at Columbia University, New York City

