



## Master of Science in Healthcare Analytics and Intelligence

### Creating competitive advantages with healthcare analytics

With increasing challenges of surging costs, growing competition, and stringent regulation, the healthcare industry is in need of leaders who not only understand the healthcare context but also are capable of utilizing analytical skillsets to lead a new path for operational excellence. The **Master of Science in Healthcare Analytics and Intelligence** program is designed for professionals who are interested in gaining competitive advantages by applying various analytical tools to create data-driven solutions for complex problems in the health care system. The STEM-designated program will give you the tools, insight and expertise you need to be a successful analytical professional 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*

### 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. Dr. Ding taught subjects in healthcare

services management, operations analysis, project management, and healthcare analytics in online, offline, and hybrid formats to students in specialty master, MBA, and undergraduate programs. He also taught multivariate analysis and empirical research methods to Ph.D. students and business intelligence to DBA students.

His research, teaching, and service have also been recognized by NJ Bright Idea Award, Junior Faculty Research Award, Texas Higher Educational Research Award, Decision Sciences Institute Best Paper Award, University Teaching Award, Susan McFarland Award, and Decision Sciences Best Reviewer Award, etc. He also provided consulting and training to leading hospitals, medical centers, and healthcare services organizations in NJ and NY.

[business.rutgers.edu/healthcare-analytics-intelligence](https://business.rutgers.edu/healthcare-analytics-intelligence)

## Curriculum

A multidisciplinary and innovative program, this is a business-oriented and analytics-based master curriculum applied to the healthcare services sector. 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. The 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 in-person and online courses and evening classes allow great flexibility for busy schedules.

## Sampling of Courses

### Healthcare Core:

- Healthcare Finance
- Healthcare Services Management
- US Healthcare Systems & Managed Markets

### Business Core:

- Lean Six Sigma
- Introduction to Project Management

### Analytics & Intelligence Core:

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

### Internship:

- Optional Practical Training
- Industry Client Project

### Electives:

- Business Analytics Programming
- Supply Chain Management Strategies
- Organizational Behavior
- Service Management
- Marketing Management
- Pharm Marketing Research
- Market Access & Reimbursements for Drugs
- Ethics in Pharma
- Business Intelligence for Supply Chains and Marketing
- Artificial Intelligence for Supply Chain Management
- Analytics for Business Intelligence
- Community Assessment for Healthcare Administrators
- Marketing for Health Care Organizations
- Python Methodologies

## Program Quick Facts

**Program:** Full-time | Part-time

**Format:** Hybrid

**Credits:** 36 credits (12 courses)

*For current application deadlines and tuition information, please visit our website:*

[business.rutgers.edu/masters-healthcare-analytics-intelligence](https://business.rutgers.edu/masters-healthcare-analytics-intelligence)

## How to Apply

### Apply online:

[business.rutgers.edu/healthcare-analytics-intelligence/admissions](https://business.rutgers.edu/healthcare-analytics-intelligence/admissions)

*Please visit [business.rutgers.edu](https://business.rutgers.edu) to learn about upcoming information sessions and open houses.*

## Contact

**Phone:** 973-353-1234

**Email:** [mshai@business.rutgers.edu](mailto: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*



*Our program trains professionals competent in addressing challenges in the health care systems.*



## 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. We welcome applicants who are data-savvy with a strong desire to pursue analytical roles in the healthcare industry.

