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. It prepares business leaders who not only understand the healthcare context but also are capable of utilizing analytical skillsets to lead a new path for operational excellence.

Upon graduation, students can pursue a variety of analytical positions for care providers in the healthcare delivery systems and their extended supply chains.

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 Florida Hospital Association.

Program Highlights

- Learn data analytics so it’s meaningful, especially in the context of health care.
- Principles of value-based care are built into every course.
- Maximize operational analysis knowledge with business leadership skills
- Gain hands-on learning experience with actual healthcare providers
- Take classes online or in person; earn up to six credits for work experience.

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.
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
- Healthcare Law and Ethics
- Pharma Purchase & Supply Chain Management
- Healthcare Innovation and Technology Management

*Analytics and intelligence consists of 12 credits
**Electives consist of 6 credits

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 2021-2022 Tuition Rates***
(*additional university fees may apply):
- **Full Time:** (12 credits/semester)
  - $14,198.50 per semester (NJ Resident/semester)
  - $24,649 per semester (Out of state/semester)
- **Part Time:**
  - $1,184 per credit (NJ Resident)
  - $2,054 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: xding@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