master of science in quantitative management: health analytics

As the health care industry continues to transition from a focus on volume of care to value of care, health care professionals with the talent and skill to guide improvements in care and strengthen financial performance are in extremely high demand.

28.3%
The compound annual growth rate in the global health care analytics market between 2019-2024
Source: MarketsandMarkets

93%
Health care executives that say predictive analytics is important to the future of their business
Source: Society of Actuaries

$52.2B
The value of the global health care analytics market by 2026
Source: Acumen Research and Consulting

Designed for working health care professionals with strong quantitative backgrounds, Duke University's fully online Health Analytics program provides the business fundamentals, health sector industry context, and advanced data analytics skills needed to solve clinical and business problems leveraging the growing availability of data.

With our health resources, globally recognized faculty, and status as a top-ranked business school, Fuqua is uniquely positioned to provide the rigor, context, and network that will transform you into a specialist in the market.

INDUSTRY INSIGHTS

"
There's more data in health care than in the banking world, the construction world, or the retail world, yet they lever the data they have in very powerful ways, whereas our use of health care data in instructive ways is meager. To me it's a noble cause—we can really solve a major national problem important to our citizens, the government, and the finances of our country if we lever these analytic services to make change."

DAVID SNOW
CHAIRMAN AND CEO
CEDAR GATE TECHNOLOGIES

Typical Class Profile
3 year average

29 Class Size	**35** Average Age
9 Average Years of Work Experience	**44%** Students of Color
52% Women	**7** Countries Represented

Quick Facts

Start Date:
September 2024

Program Length:
19 months

Program Format:
Online

Style:
Cohort-based

Curriculum:
- Business management fundamentals
- Quantitative analytics
- Health sector knowledge

Scan the QR Code for more information about the MSQM HA program.

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Program Format

Five 3-Month Terms Consisting of:

Off Campus

- A 2-week reading period before the start of classes each term; 3-4 courses per term

- A 3-month distance learning period combining self-paced assignments with virtual class sessions and team projects

- Virtual class sessions held each weekend during distance learning periods

- Classes meet twice a month on alternate weekends

On Campus

Travel to Duke's campus in Durham, NC for:

- A required 3-day orientation and team-building residency (subject to visa constraints) at the start of Term 1

- An optional mid-program, 2-day leadership intensive

- A second optional mid-program Data Visualization workshop

- Graduation ceremonies

Sample Curriculum

TERM 1	TERM 2	TERM 3	TERM 4	TERM 5
Programming for Data Analytics	Business Fundamentals: Marketing & Strategy	Life Sciences Strategy	Provider Operations Analytics	Analysis of Health Care Effectiveness and Outcomes
Applied Probability & Statistics	Business Fundamentals: Accounting & Finance	Electronic Health Records and Data Structures	Value-Based Care	Business Communication
Managerial Economics for Health Care	Data Analytics & Applications	Advanced Data Analytics & Applications	Decision Models	Ethical & Legal Issues in Health Analytics
	Health Care Institutions & Policy			Navigating Organizations

ALUMNA SPOTLIGHT

> " One of the real strengths of the program is the people you get to work with. My team members included physicians, nurses, researchers as well as individuals working in the insurance field and pharmaceutical/biotech. Everyone brings such a unique perspective to the topics; it really makes the conversations engaging and diverse."

**MARY LIANG, CLASS OF 2022
HEALTHCARE SOLUTIONS ARCHITECT
SAS INSTITUTE, INC.**

KEY DATES

ROUND	APPLICATION DEADLINE
Round 1	Nov. 1, 2023
Round 2	Dec. 6, 2023
Round 3	Jan. 4, 2024
Round 4	Feb. 1, 2024
Round 5	March 6, 2024
Round 6	April 3, 2024
Round 7	May 1, 2024
Round 8	June 5, 2024
Round 9	July 3, 2024

Get in Touch

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