



TheChicagoSchool®

M.S. Biomedical Sciences: Data Science in Healthcare Concentration

Online

Six 8-week Terms*

Sample Schedule: 30 Credit Hours**

SEMESTER 1:

Term 1:

Biomedical Foundations I: Biochemical and Metabolic Processes (2 credits)
Evidence-based Practices (1 credit)

Term 2:

Biomedical Foundations II: Cellular and Molecular Processes (2 credits)
Research Methods (1 credit)

SEMESTER 2:

Term 3:

Foundations of Human Anatomy and Physiology (3 credits)
Humanities and Medical Ethics (1 credit)
Introduction to Biomedical Data Science (2 credits)

Term 4:

Programming for Health Data Science (3 credits)
Advanced Biostatistics and Predictive Analytics (3 credits)

SEMESTER 3:

Term 5:

Pathophysiology (3 credits)
Machine Learning in Healthcare (3 credits)

Term 6:

Data Visualization and Communication (3 credits)
Biopsychosocial Aspects of Medical Conditions (2 credits)
Capstone (1 credit)

Contact Our Admissions Department Today

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[Licensure Disclosure](#)

*Timelines in this document reflect a typical progression through the program and standard time to completion. Individual student progression and time to completion may vary. Contact your admissions counselor for additional details.

**Program and course information is subject to change. Please refer to the course catalog for additional details.

(Revised 09/2026)