

INFORMATICS EDUCATIONAL OPPORTUNITIES AT DUKE UNIVERSITY

(and Duke's NEW MIDS Degree)

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Programs include...



School of Nursing

- Certificate In Health Informatics (open to anyone with at least 1 year health care experience)
- M.S. in Nursing / Major in Informatics (open to RNs)
- PhD in Nursing
- DNP in Nursing

Programs include...



School of Medicine

- Master of Management in Clinical Informatics
- Clinical Informatics Fellowship
(for training U.S. Board Certified physicians)
- Informatics elective for 4th year medical students

Programs include...

Duke Center for Health Informatics

- Informatics elective for 4th year medical students
- Short Course
- 10x10: Data Standards for Learning Health Systems
- Working with
 - ❑ Social Sciences Research Institute
 - ❑ Information Initiative at Duke (iiD)



Master in Interdisciplinary Data Science



Master in Interdisciplinary Science (MIDS)

- Concentrations where strong data science skills are needed to address future challenges
- Quantitative thought leader who uses disruptive computational strategies to generate innovation and new insights
- Combines rigorous computational and technical training with field knowledge and repeated practice in critical thinking, teamwork, communication, and collaborative leadership
- Generate data scientists who can add value to any field.... **Biomedical Informatics**

MIDS with Concentration in Biomedical Informatics

- For aspiring informaticians who want to work in biomedical informatics where strong data science knowledge is required.
- Students will be exposed to the interdisciplinary application of data science while developing expertise applicable to real-world problems in healthcare
- Graduates will have proficiencies that will enable them to best apply these concepts in addressing future biomedical informatics challenges

Courses

CORE MIDS COURSES

- Data to Decision
- Modeling and Representation of Data
- Introduction to Text Analysis
- Principles of Machine Learning
- Data Management Systems
- Data Logic, Visualization, and Storytelling
- Data Science Ethics

BMI COURSES

- Introduction to Informatics
- Data Representation and Standards
- Health Care Information Infrastructure
- EHRs and Mobile Health
- Health Care Systems
- Health Analytics and Decision Support
- Informatics Research Seminar

Master in Interdisciplinary Data Science

General Information

- Degree offered: M.S.
- Interdisciplinary Faculty
- Students: 25-35
- Students receiving Financial Aid: N/A
- Part-time study available: No
- Application period for Fall 2018 admission
 - February 15, 2018
- <https://gradschool.duke.edu/academics/programs-degrees/master-interdisciplinary-data-science>

Master in Interdisciplinary Data Science



For more information contact:

Director of Communications, Master in Interdisciplinary
Data Science (MIDS)

(919) 681-1972 or dukemids@duke.edu

<https://mids.duke.edu>

**Duke Center for Health Informatics booth
OR**

<http://dchi.duke.edu>

Concentration: (Biomedical Informatics)

Year 1 Fall		Year 1 Spring	
1st half	2nd half	1st half	2nd half
Data to Decision		Data Management Systems	
Modeling and Representation of Data		Principles of Machine Learning	
Data Wrangling and Introduction to Text Analysis		Data Logic, Visualization, & Storytelling	Data Science Ethics
Introduction to Biomedical Informatics		Data Representation and Standards	
Data Science Seminar (1/2 credit)		Data Science Seminar (1/2 credit)	
Year 2 Fall		Year 2 Spring	
1st half	2nd half	1st half	2nd half
Health Care Information Infrastructure		Health Care Systems	
EHRs and Mobile Health		Health Analytics and Decision Support	
Informatics Research Seminar (1 credit)		Informatics Research Seminar (1 credit)	
Data Science Seminar (1/2 credit)		Data Science Seminar (1/2 credit)	
Capstone		Capstone	