# **MS in Health Informatics**

**Requirements for Graduation**

**Total Credits Required to Graduate: 36 credits**

**Full-Time Mode: Students must register for at least 3 courses (9 credits) each Fall and Spring from the following list of courses.**

**Part-Time Mode: Students must register for at least 2 courses (6 credits) each Fall and Spring from the following list of courses.**

**International Students: Students must register for at least 3 courses (9 credits) each Fall and Spring from the following list of courses. Of the three at least two should be on-campus while the third can be online. On-Campus courses will have suffix E001 (eg: BINF5035E001) while Online courses have a suffix E00W (eg: BINF5035E00W).**

**The Capstone Project (not mandatory), if taken, will count as 6 credits towards the required total of 36 credits.**

**Students are strongly recommended to check the course schedule using** <https://shp.rutgers.edu/registrar/course-schedule/> **to determine the available courses each semester as also the prerequisites (if any) required for them.**

Brief course descriptions are provided for each course and are available at <https://shp.rutgers.edu/health-informatics/master-of-science-health-informatics/#curriculum> and should be consulted by each student before registering for a course in the curriculum. You can also check with the Program Director on the suitability of the courses each semester.

**Choice of courses for a total of 36 credits**

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| **Course No** | **Course Title** | **Semester Offered** | **Pre-requisites** | **Faculty** |
| BINF5005 | Health Information Systems – 3 cr | Fall |  | Dr Lorena Carlo |
| BINF5403 | Python Programming – 3 cr | Fall |  | Dr Riddhi Vyas |
| BINF5125 | Machine Learning – 3 cr | Spring | BINF5403/  Basic Python Progg | Dr Suril Gohel |
| BINF5115 | Healthcare Database Systems – 3 cr | Spring |  | Dr Riddhi Vyas |
| BINF5311 | Electronic Health Records – 3 cr | Fall | Permission from Dr Sherifi | Dr Tila Sherifi |
| BINF5325 | Clinical Decision Support Systems – 3 cr | Fall, Spring |  | Dr Dinesh Mital |
| BINF5030 | Visualization in Health Informatics – 3 cr | Fall |  | Dr Lorena Carlo |
| BINF5210 | Health Data Analytics with SAS – 3 cr | Fall |  | Dr Riddhi Vyas |
| BINF5131 | Health Finance Systems – 3 cr | Fall, Spring |  | Dr Jojy Cheriyan |
| BINF5230 | Translational Medicine & Biomarkers – 3 cr | Spring |  | Dr Fritz Coffman |
| BINF5312 | Health Information Processing (NLP) – 3 cr | Spring | BINF5403/  Basic Python Progg | Dr Lorena Carlo |
| BINF5900 | Data Science Programming – 3 cr | Spring | BINF5403/  Basic Python Progg | Dr Riddhi Vyas |
| BINF5145 | Diseases and Systems – 3 cr | Fall |  | Dr Fritz Coffman |
| BINF5520 | Health Data Analytics – 3 cr | Fall, Spring |  | Dr Mita Ray |
| BINF5035 | Biostatistics – 3 cr | Fall, Spring |  | Dr Antonina Mitrofanova |
| BINF5513 | Cybersecurity in Healthcare – 3 cr | Spring |  | Prof Vern Chibber |
| BINF5800 | Internship in Health Informatics – 3 cr | Summer | 1 Year Full-Time Study | Dr S Srinivasan |
| BINF5040 | Biomedical Information Processing (R Programming) – 3 cr | Fall, Spring | Some programming knowledge | Dr Mohamed Ahmed |
| BINF5515 | Information Governance – 3 cr | Spring | Permission from Dr Sherifi | Dr Tila Sherifi |
| BINF5006 | Disease Mapping & Surveillance – 3 cr | Spring |  | Dr Rahul Mittal |
| BINF5100 | Introduction to Biomedical Informatics – 3 cr | Summer, Spring |  | Dr Izhar Hasan |
| BINF5000 | Essentials of Health Informatics – 3 cr | Summer | Permission from Dr Sherifi | Dr Rahul Mittal |
| BINF5130 | Controlled Medical Terminology – 3 cr | Fall | Permission from Dr Sherifi | Dr TJ Hunt |
| BINF5075 | Clinical Trial Data Management – 3 cr | Spring |  | Dr Barbara Tafuto |
| BINF6000 | Capstone Project – 6 cr | Fall, Spring, Summer | Preferably last semester of study | Dr S Srinivasan |
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| Consult School and program policy regarding specific requirements. |
| **Student Name** (printed): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *I agree to complete these courses for graduation.* |
| Please return signed copy to: **Office of Enrollment Services, 65 Bergen street, Room #149, Newark, NJ 07107-3001** |

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| **Office use only : Term:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Published on **10/02/2023** |

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| **Student Disclaimer:** *The database of course description is updated continuously throughout the year. It may be different than your "requirements for the graduation"(RG) form you signed at the time of admissions for which you are held accountable. Please use this site as a reference source and your RG as your official contract.* |