MS/MPH Masters Degree Plan
(40 credit hours)

Name:

Student ID #:   **Catalog Year 2018-2020 v7.24.18**

SBMI Required Courses	Semester/Year	SCH	Grade
BMI 5300 Introduction to Biomedical Informatics*		3	
BMI 5310 Foundations I*		3	
BMI 5311 Foundations II*		3	
BMI 5351 Research Design and Evaluation*		3	
BMI 6313 Scientific Writing*		3	
BMI 6000 Practicum in Biomedical Informatics*		3	
Number of SBMI Required Credits		18	

SPH Required Courses	Semester/Year	SCH	Grade
PHM 1690 Introduction to Biostatistics in Public Health*		4	
PHM 2612 Epidemiology I*		3	
PHM 1110 Health Promotion and Behavioral Sciences in PH*		3	
PHM 3715 Management and Policy Concepts in PH*		3	
PHM 2110 Public Health Ecology & the Human Enviornment*		3	
Number of SPH Required Credits		16	

*Required Courses - any exceptions must be pre-approved by the Associate Dean for Academic Affairs prior to course registration.

SBMI Electives	Semester/ Year	Cr	Grade
		3	
		3	
Number of SBMI Elective Credits		6	

The hours reflected on this degree plan are required for completion of the MS in Biomedical Informatics. Please see the SPH degree plan for additional courses required for completion of the MPH.

Total SCH Completed	40

Approved by:

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Student Signature   Date

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Primary Advisor (Print Name)   Signature   Date

-Degree plans must have an original signature by both the student and advisor to be valid.

Research Track Concentrations for 2018-2020

Bioinformatics (18 hours)

BMI 5330   Introduction to Bioinformatics
BMI 5331   Foundations of Pharmacogenomics
BMI 5332   Statistical Analysis of Genomic Data
BMI 5333   Systems Medicine: Principles and Practice
BMI 6331   Medical Imaging and Signal Pattern Recognition
BMI 6332   Genomics and Precision Medicine
BMI 6333   Current Topics in Genomics
BMI 6334   Deep Learning in Biomedical Informatics

Clinical Informatics (18 hours)

BMI 5004   Introduction to Clinical Healthcare
BMI 5007   Methods in Health Data Science
BMI 5301   The U.S. Healthcare System
BMI 5313   Foundations of Electronic Health Records and Clinical Information Systems
BMI 5315   Quality and Outcome Improvement in Healthcare
BMI 5328   Systems Analysis and Project Management
BMI 5353   Biomedical Informatics Data Analysis
BMI 5354   Cognitive Engineering in Biomedical Informatics
BMI 5360   Clinical Decision Support Systems
BMI 6300   Advanced Health Information Systems
BMI 6303   Introduction to Telehealth
BMI 6315   Advanced Electronic Health Records
BMI 6316   Change Management in Health Informatics
BMI 6324   Health Information Technology Policy
BMI 6328   Health Care Delivery in an EHR Enabled Environment
BMI 6330   Biomedical Natural Language Processing
BMI 6340   HI Visualization and Visual Analytics

Human Factors Engineering (18 hours)

BMI 5007   Methods in Health Data Science
BMI 5302   Introduction to Human Factors in Healthcare
BMI 5354   Cognitive Engineering in Biomedical Informatics
BMI 5360   Clinical Decision Support Systems
BMI 6301   Health Data Display
BMI 6305   Social Dynamics and Health Information
BMI 6308   Connected and Personal Health Technologies
BMI 6309   Healthcare Interface Design
BMI 6311   Advanced Decision Analysis
BMI 6322   Distributional Semantics: Methods and Biomedical Applications
BMI 6330   Biomedical Natural Language Processing
BMI 6340   HI Visualization and Visual Analytics

Health Data Science (18 hours)

BMI 5007   Methods in Health Data Science
BMI 6340   HI Visualization and Visual Analytics
BMI 5353   Biomedical Informatics Data Analysis
BMI 6334   Deep Learning in Biomedical Informatics
BMI 5304   Advanced Database Concepts in Biomedical Informatics
BMI 6306   Information and Knowledge Representation in Biomedical Informatics

BMI 6318   Big Data in Biomedical Informatics
BMI 6323   Machine Learning in Biomedical Informatics

Public Health Informatics (18 hours)

BMI 6340   HI Visualization and Visual Analytics
BMI 5353   Biomedical Informatics Data Analysis
BMI 5301   The U.S. Healthcare System
BMI 5315   Quality and Outcome Improvement in Healthcare
BMI 5328   Systems Analysis and Project Management
BMI 6303   Introduction to Telehealth
BMI 6324   Health Information Technology Policy
BMI 5380   Principles and Foundations of Public Health Informatics
BMI 5381   Methods in Public Health Informatics
BMI 5382   Synthesis Project in Public Health Informatics
BMI 6317   Leadership & Entrepreneurship in Health Informatics

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