

Name:

Research Track - Masters Degree Plan (39 credit hours)

## Student ID #:

## Catalog Years 2020-2021 & 2021-2022

SBMI Required Courses	Semester/Year	SCH	Grade
BMI 5300 Introduction to Biomedical Informatics*		3	
BMI 5310 Foundations of Biomedical Information Sciences I*		3	
BMI 5311 Foundations of Biomedical Information Sciences II*		3	
BMI 5352 Statistical Methods*		3	
BMI 6313 Scientific Writing*		3	
BMI 6000 Practicum in Biomedical Informatics*		3	
Number of SBMI Required Credits		18	

SBMI Electives	Semester/ Year	SCH	Grade
		3	
		3	
		3	
		3	
		3	
		3	
		3	
Number of SBMI Elective Credits		21	
	Total SCH Completed	39	

Approved by:

Student Signature		Date
Primary Advisor (Print Name)	Signature	Date

	Research Track Concentrations
	Bioinformatics
BMI 5330	Introduction to Bioinformatics
BMI 5331	Foundations of Pharmacogenomics
	Statistical Analysis of Genomic Data
	Systems Medicine: Principles and Practice
	Biomedical Data Privacy Research Design and Evaluation in Biomedical Informatics
	Medical Imaging and Signal Pattern Recognition
	Genomics and Precision Medicine
BMI 6333	Current Topics in Genomics
	Deep Learning in Biomedical Informatics
BMI 6340	Health Information Visualization and Visual Analytics
	Health Data Science
	Methods in Health Data Science
	Advanced Database Concepts in Biomedical Informatics
	Research Design and Evaluation in Biomedical Informatics Biomedical Data Analysis
	Information and Knowledge Representation in Biomedical Informatics
	Big Data in Biomedical Informatics
BMI 6323	Machine Learning in Biomedical Informatics
	Medical Imaging and Signal Pattern Recognition
	Deep Learning in Biomedical Informatics
DIVII 0340	Health Information Visualization and Visual Analytics
D1 (: -:-	Clinical Informatics
	Introduction to Clinical Healthcare
	Methods in Health Data Science The U.S. Healthcare System
	Foundations of Electronic Health Records and Clinical Information Systems
	Quality and Outcome Improvement in Healthcare
	Systems Analysis and Project Management
	Research Design and Evaluation in Biomedical Informatics
	Biomedical Data Analysis  Cognitive Engineering in Riemodical Informatics
	Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems
	Methods in Pharmacy Informatics
BMI 5391	Synthesis Project in Pharmacy Informatics
	Advanced Health Information Technology
	Introduction to Telehealth Advanced Electronic Health Records
BIVII 6316	Change Management in Health Informatics
	Change Management in Health Informatics Health Information Technology Policy
BMI 6324	
BMI 6324 BMI 6328 BMI 6330	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing
BMI 6324 BMI 6328 BMI 6330	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment
BMI 6324 BMI 6328 BMI 6330 BMI 6340	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering
BMI 6324 BMI 6328 BMI 6330 BMI 6340	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering Methods in Health Data Science
BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5002 BMI 5303	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5007 BMI 5302 BMI 5303 BMI 5351	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5354	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 5360 BMI 6301	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare  Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display
BMI 6324 BMI 6330 BMI 6340 BMI 5302 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 5354 BMI 6301 BMI 6301	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5354 BMI 5354 BMI 5354 BMI 5356 BMI 6305 BMI 6305 BMI 6305	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 5360 BMI 6305 BMI 6305 BMI 6308	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design
BMI 6324 BMI 6328 BMI 6340 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 5360 BMI 6301 BMI 6308 BMI 6308 BMI 6309 BMI 6302	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies
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BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 6305 BMI 6305 BMI 6308 BMI 6309 BMI 6309 BMI 6302 BMI 6330	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics
BMI 6324 BMI 6328 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5354 BMI 5354 BMI 6305 BMI 6305 BMI 6308 BMI 6308 BMI 6308 BMI 6308 BMI 6308 BMI 6308 BMI 6308	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 6305 BMI 6308 BMI 6309 BMI 6322 BMI 6330 BMI 6330 BMI 6330	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 6305 BMI 6305 BMI 6309 BMI 6309 BMI 6330 BMI 6340	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Public Health Informatics  The U.S. Healthcare System
BMI 6324 BMI 6328 BMI 6330 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 6305 BMI 6305 BMI 6309 BMI 6309 BMI 6302 BMI 6330 BMI 6304 BMI 6305 BMI 6305	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Public Health Informatics  The U.S. Healthcare System Quality and Outcome Improvement in Healthcare Systems Analysis and Project Management Research Design and Evaluation in Biomedical Informatics
BMI 6324 BMI 6328 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5360 BMI 6301 BMI 6308 BMI 6308 BMI 6308 BMI 6309 BMI 6322 BMI 6340	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Public Health Informatics  The U.S. Healthcare System Quality and Outcome Improvement in Healthcare Systems Analysis and Project Management Research Design and Evaluation in Biomedical Informatics Biomedical Data Analysis
BMI 6324 BMI 6328 BMI 6340 BMI 5007 BMI 5302 BMI 5303 BMI 5354 BMI 5360 BMI 6305 BMI 6305 BMI 6305 BMI 6305 BMI 6322 BMI 6340	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Public Health Informatics  The U.S. Healthcare System Quality and Outcome Improvement in Healthcare Systems Analysis and Project Management Research Design and Evaluation in Biomedical Informatics Biomedical Data Analysis Principles and Foundations of Public Health Informatics
BMI 6324 BMI 6328 BMI 6340 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 6305 BMI 6305 BMI 6308 BMI 6309 BMI 6322 BMI 6330 BMI 6340	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Public Health Informatics  The U.S. Healthcare System Quality and Outcome Improvement in Healthcare Systems Analysis and Project Management Research Design and Evaluation in Biomedical Informatics Biomedical Data Analysis Principles and Foundations of Public Health Informatics Methods in Public Health Informatics
BMI 6324 BMI 6328 BMI 6340 BMI 6300 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 6309 BMI 6309 BMI 6322 BMI 6330 BMI 6340  BMI 5351 BMI 5315 BMI 5315 BMI 5315 BMI 5315 BMI 5328 BMI 5353 BMI 5353 BMI 5353 BMI 5353 BMI 5353	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Public Health Informatics  The U.S. Healthcare System Quality and Outcome Improvement in Healthcare Systems Analysis and Project Management Research Design and Evaluation in Biomedical Informatics Biomedical Data Analysis Principles and Foundations of Public Health Informatics
BMI 6324 BMI 6328 BMI 6330 BMI 6340  BMI 5007 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 6305 BMI 6305 BMI 6309 BMI 6309 BMI 6309 BMI 6322 BMI 6330 BMI 6340  BMI 5351 BMI 5353 BMI 5353 BMI 5353 BMI 5353 BMI 5353 BMI 5382 BMI 5381 BMI 5383 BMI 5381	Health Information Technology Policy Health Care Delivery in an EHR Enabled Environment Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Human Factors Engineering  Methods in Health Data Science Introduction to Human Factors in Healthcare Methods in Human Factors Engineering Research Design and Evaluation in Biomedical Informatics Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems Health Data Display Social Dynamics and Health Information Connected and Personal Health Technologies Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications Biomedical Natural Language Processing Health Information Visualization and Visual Analytics  Public Health Informatics  The U.S. Healthcare System Quality and Outcome Improvement in Healthcare Systems Analysis and Project Management Research Design and Evaluation in Biomedical Informatics Biomedical Data Analysis Principles and Foundations of Public Health Informatics Methods in Public Health Informatics Synthesis Project in Public Health Informatics