

McWilliams School of Biomedical Informatics

Research Track - Masters Degree Plan
(39 credit hours)

Student ID #: Catalog Years: 2020-2024

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	
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		3	
Number of SBMI Elective Credits		21	

Total SCH Completed 39

Approved by:	Total 3cm completed	33	ı
Student Signature			Date
Primary Advisor (Print Name)	Signature		Date

	Research Track Concentrations
	Bioinformatics
BMI 5330	Introduction to Bioinformatics
	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 Current Topics in Genomics
	Deep Learning in Biomedical Informatics
	Health Information Visualization and Visual Analytics
	Applied Genetic Methods in Public Health
DA41 5007	Health Data Science and Artificial Intelligence
	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
	Machine Learning in Biomedical Informatics
	Medical Imaging and Signal Pattern Recognition
	Deep Learning in Biomedical Informatics
BMI 6340	Health Information Visualization and Visual Analytics
	Clinical Informatics
BMI 5004	Introduction to Clinical Healthcare
	Methods in Health Data Science
	The U.S. Healthcare System
BMI 5305	Legal and Ethical Aspects of Health Informatics
BMI 5313	Foundations of Electronic Health Records and Clinical Information Systems
	Quality and Outcome Improvement in Healthcare
BMI 5317	Applied Data Management
	Systems Analysis and Project Management
	Workflow Process Modeling
	Research Design and Evaluation in Biomedical Informatics
	Biomedical Data Analysis
	Cognitive Engineering in Biomedical Informatics Clinical Decision Support Systems
	Business and Technical Communication
	Methods in Pharmacy Informatics
	Methods in Pharmacy Informatics Synthesis Project in Pharmacy Informatics
BMI 5391	Methods in Pharmacy Informatics Synthesis Project in Pharmacy Informatics Advanced Health Information Technology
BMI 5391 BMI 6300	Synthesis Project in Pharmacy Informatics
BMI 5391 BMI 6300 BMI 6303	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology
BMI 5391 BMI 6300 BMI 6303 BMI 6315	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6330	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system Biomedical Natural Language Processing
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6330	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6330	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system Biomedical Natural Language Processing Health Information Visualization and Visual Analytics
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6330 BMI 6340	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system Biomedical Natural Language Processing
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6330 BMI 6340	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system Biomedical Natural Language Processing Health Information Visualization and Visual Analytics Human Factors Engineering
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6330 BMI 6340	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system Biomedical Natural Language Processing Health Information Visualization and Visual Analytics Human Factors Engineering Methods in Health Data Science
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6314 BMI 6324 BMI 6328 BMI 6340 BMI 5300 BMI 5007 BMI 5302 BMI 5303	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system Biomedical Natural Language Processing Health Information Visualization and Visual Analytics Human Factors Engineering Methods in Health Data Science Introduction to Human Factors in Healthcare
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BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 5300 BMI 5302 BMI 5303 BMI 5303 BMI 5303 BMI 5351 BMI 5360	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system 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
BMI 5391 BMI 6300 BMI 6303 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6330 BMI 5302 BMI 5302 BMI 5303 BMI 5351 BMI 5354 BMI 5354 BMI 5354 BMI 5354 BMI 6301	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system 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
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BMI 5391 BMI 6300 BMI 6316 BMI 6316 BMI 6324 BMI 6328 BMI 6330 BMI 5300 BMI 5007 BMI 5007 BMI 5007 BMI 5303 BMI 5351 BMI 5356 BMI 6308 BMI 6308 BMI 6308	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system 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 Digital Technologies and Analytics for Personalized Health Healthcare Interface Design
BMI 5391 BMI 6300 BMI 6315 BMI 6315 BMI 6316 BMI 6324 BMI 6328 BMI 6320 BMI 5302 BMI 5302 BMI 5303 BMI 5303 BMI 5360 BMI 6305 BMI 6305 BMI 6309 BMI 6309 BMI 6309 BMI 6309	Synthesis Project in Pharmacy Informatics Advanced Health Information Technology Introduction to Telehealth Advanced Electronic Health Records Change Management in Health Informatics Health Information Technology Policy Value in the Health Data Eco-system 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 Digital Technologies and Analytics for Personalized Health Healthcare Interface Design Distributional Semantics: Methods and Biomedical Applications
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