

Name:

Research Track - Masters Degree Plan (39 credit hours)

## 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 5352 Statistical Methods*		3	
BMI 6313 Scientific Writing*		3	
BMI 6000 Practicum in Biomedical Informatics*		3	
Number of SBMI Required Credits		21	

SBMI Electives	Semester/ Year	SCH	Grade
		3	
		3	
		3	
		3	
		3	
		3	
Number of SBMI Elective Credits		18	

Total SCH Completed 39

## Approved by:

Student Signature		Date
Driver and Advisor (Drivet Name)	Cian about	Data
Primary Advisor (Print Name)	Signature	Date

<sup>-</sup>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)					
DMI 5220	Introduction to Bioinformatics (18 nours)	Basic			
	Foundations of Pharmacogenomics	Research			
	Statistical Analysis of Genomic Data	Research			
	Systems Medicine: Principles and Practice	Research			
	Biomedical Data Privacy	Research			
	Medical Imaging and Signal Pattern Recognition	Advanced			
	Genomics and Precision Medicine	Advanced			
	Current Topics in Genomics	Advanced			
BMI 6334	Deep Learning in Biomedical Informatics	Advanced			
	Clinical Informatics (18 hours)				
	Introduction to Clinical Healthcare	Basic			
	Methods in Health Data Science	Basic			
	The U.S. Healthcare System	Basic			
	Foundations of Electronic Health Records and Clinical Information Systems	Basic			
	Quality and Outcome Improvement in Healthcare Systems Analysis and Project Management	Basic Basic			
	Biomedical Informatics Data Analysis	Research			
	Cognitive Engineering in Biomedical Informatics	Research			
	Clinical Decision Support Systems	Basic			
	Advanced Health Information Systems	Advanced			
	Introduction to Telehealth	Advanced			
	Advanced Electronic Health Records	Advanced			
BMI 6316	Change Management in Health Informatics	Advanced			
	Health Information Technology Policy	Advanced			
	Health Care Delivery in an EHR Enabled Environment	Advanced			
	Biomedical Natural Language Processing	Advanced			
BMI 6340	HI Visualization and Visual Analytics	Research			
	Human Factors Engineering (18 hours)				
	Methods in Health Data Science	Basic			
	Introduction to Human Factors in Healthcare	Basic			
	Cognitive Engineering in Biomedical Informatics	Research Basic			
	Clinical Decision Support Systems Health Data Display	Advanced			
	Social Dynamics and Health Information	Advanced			
	Connected and Personal Health Technologies	Advanced			
	Healthcare Interface Design	Advanced			
	Advanced Decision Analysis	Advanced			
	Distributional Semantics: Methods and Biomedical Applications	Advanced			
	Biomedical Natural Language Processing	Advanced			
	HI Visualization and Visual Analytics	Research			
DMI FOOT	Health Data Science (18 hours)	Doc!-			
	Methods in Health Data Science	Basic			
	HI Visualization and Visual Analytics Biomedical Informatics Data Analysis	Research Research			
	Deep Learning in Biomedical Informatics	Advanced			
	Advanced Database Concepts in Biomedical Informatics	Research			
	Information and Knowledge Representation in Biomedical Informatics	Advanced			
	Big Data in Biomedical Informatics	Advanced			
	Machine Learning in Biomedical Informatics	Advanced			
	•				
	Public Health Informatics (18 hours)				
	HI Visualization and Visual Analytics	Research			
	Biomedical Informatics Data Analysis	Research			
	The U.S. Healthcare System	Basic			
	Quality and Outcome Improvement in Healthcare	Basic			
	Systems Analysis and Project Management Introduction to Telehealth	Basic Advanced			
	Health Information Technology Policy	Advanced			
	9, ,				
LIVIL JJUU					
	Principles and Foundations of Public Health Informatics  Methods in Public Health Informatics	Basic Basic			
BMI 5381	Methods in Public Health Informatics	Basic			
BMI 5381 BMI 5382					