BIOMEDICAL SCIENCES, PHD WITH BIOMEDICAL INFORMATICS CONCENTRATION

Overview

The Division of Biomedical Informatics and Genomics offers a PhD track in Biomedical Informatics (BMI) within the Biomedical Sciences (BMS) Graduate Program. This program offers a research-based graduate training that prepares students to perform as leaders in the biomedical informatics, where they may apply their knowledge in academia, clinical healthcare, public health, and other industries. Students are admitted to the BMI Track upon admission to the BMS PhD program, and will complete a curriculum focused on biomedical health informatics, data science, and other courses in molecular biology.

Requirements

A minimum of 48 credit hours of course work and independent study is required for the Ph.D. with a Concentration in Biomedical Informatics. In the first year, students in the Biomedical Informatics (BMI) Track take an identical curriculum, totaling 28 credit hours. In the second year, students complete core coursework, electives, and Directed Independent Study, for a minimum of 20 credit hours. Biomedical Informatics Dissertation Research credit hours (BIMI 9990 Biomedical Informatics Dissertation Research (1 c.h.)) do not contribute to the minimum credit hours for this degree.

Year 1		
Fall		**Credit Hours**
First Year: Must Complete 28 Credit Hours		
BIMI 6100	Elements in Biomedical Informatics	4
BIMI 6200	Introduction to Data Science for Biomedical Informatics	3
BIMI 8500	Research Methodology of Biomedical Informatics	2
BIMI 7210	Biomedical Informatics Workshop I - IV	1
BIMI 7220	Biomedical Informatics Research Methods	4
INTD 6010	Responsible Conduct of Research	0
	Credit Hours	**14**
Spring		
BIMI 6300	Fundamentals of Data Analytics	3
BIMI 6400	Health Informatics	3
BIMI 7210	Biomedical Informatics Workshop I - IV	1
BIMI 7230	Biomedical Informatics Research Methods	2
BIMI 8500	Research Methodology of Biomedical Informatics	2
EPID 7810	Human Molecular Genetics	3
	Credit Hours	**14**
Summer Session 1		
Biomedical Informatics Dissertation Research		
	Credit Hours	**0**
Year 2		
Fall		
Second Year: Must Complete 20 Credit Hours		
BIMI 7100	Statistical Machine and Deep Learning in Biomedical Practice	3
BIMI 8500	Research Methodology of Biomedical Informatics	2
BIMI 7210	Biomedical Informatics Workshop I - IV	1
BIMI 7990	Biomedical Informatics Directed Independent Study	3
Electives		2
	Credit Hours	**11**
Spring		
BIMI 8500	Research Methodology of Biomedical Informatics	2
BIMI 7210	Biomedical Informatics Workshop I - IV	1
BIMI 7990	Biomedical Informatics Directed Independent Study	3

Electives	3
Credit Hours	**9**

Summer Session 1

Biomedical Informatics Dissertation Research	
Credit Hours	**0**

Year 3

Fall

Biomedical Informatics Dissertation Research	
Credit Hours	**0**

Spring

Biomedical Informatics Dissertation Research	
Credit Hours	**0**

Year 4

Fall

Biomedical Informatics Dissertation Research	
Credit Hours	**0**

Spring

Biomedical Informatics Dissertation Research	
Credit Hours	**0**

Year 5

Fall

Biomedical Informatics Dissertation Research	
Credit Hours	**0**

Spring

Biomedical Informatics Dissertation Research	
Credit Hours	**0**
Total Credit Hours	**48**

Program String, Field of Study, and Concentration code: MDPHD_GR, BMSP / BIMI

Contact

For more information, contact the School of Medicine (https://medicine.tulane.edu/bms#contact-us).