

# BIOMEDICAL RESEARCH TECHNOLOGIES

## MASTER OF SCIENCE CURRICULUM GUIDE 2018

*\*\*Please note that only required courses are listed in the semester grids below. To be considered full-time for tuition purposes you must be registered for at least 10 (no more than 18) credit hours per semester. Please note that your financial aid provider may have different requirements. A list of suggested electives has been provided on the following page but other options may be considered in consultation with the Program Director. All students are required to take a minimum of six (9) credit hours of elective coursework and must earn at least 30 credit hours during their MS tenure. Elective coursework should be taken during the second year.*

### Year 1 Required Courses Fall Semester (11 required credit hours)

Course Number	Course Name	Days/Times Offered	Credits Earned
GNTD 7001	Principles of Molecular and Cellular Biology: Choice of any ONE flex session: - Class-22882 002-LE Biomolecules - Class-22929 003-LE Genetic Mechanisms - Class-22930 004-LE Cell Cycle and Trafficking - Class-22931 005-LE Cell Communication and Movement	Please refer to flex session schedule	1
BMRT7010L	Introduction to Biomedical Research Techniques	Tu, Th, Fr. 10.00am-1.00pm	6
BMRT7011C	Advanced Methods in Biomedical Research: Histology and microscopy	Mo: 11.00am-1.00pm; We: 11.00am-12.00pm	3
BMRT8000	Laboratory Research	Varies, based on laboratory	1

**Spring Semester (9 required credit hours)**

Course Number	Course Name	Days/Times Offered	Credits Earned
BMRT7011C	Advanced Methods in Biomedical Research	TBD	6
GNTD7003	Ethics in Research	TBD	1
BMRT7000	Journal Club	TBD	1
BMRT8000	Laboratory Research	TBD	1

**Summer Semester**

**\*\*MANDATORY LABORATORY EXPERIENCE\*\***

**Year 2 Required Courses**

**Fall Semester (1 required credit hour)**

Course Number	Course Name	Days/Times Offered	Credits Earned
BMRT8000	Laboratory Research	TBD	1

**Spring Semester (1 required credit hour)**

Course Number	Course Name	Days/Times Offered	Credits Earned
BMRT8000	Laboratory Research	TBD	1

**Elective Coursework Options** (please consult with Program Leadership BEFORE selecting any elective courses):

<b>Course Number</b>	<b>Course Name</b>	<b>Semester(s) Offered</b>	<b>Credits Earned</b>
BE7022	Intro. to Biostatistics	Fall	3
BE7061	Biostatistics in Research	Spring	3
BE7089	Experimental Design	Spring	3
BE7097	Categorical Data Analysis	Spring	2
COMM8056	Seminar in Communication, Science, and Technology	TBD	3
CS7099	Introduction to Bioinformatics	Spring	3
DB9001	DB Seminar – Fall	Fall	1
DB9002	DB Seminar – Spring	Spring	1
DB9087	Development & Disease	Spring of Even Years	1
GNTD8002	Career Opportunities in Biomedical Sciences	Spring	2
IMM8088	Foundations of Immunology	Fall	3
MCP8050C	Stats & Exp. Design for Biomed	Spring	3
MCBP7010	New Drug Discovery I – Preclinical Development	Fall	2
MCBP7027	Introduction to Intellectual Property Law for Biomedical Research Professionals	TBD	2
PHIL6050	Ethical Foundations for Researchers	Fall/Spring/Summer	
PH9068	Qualitative Methods for Health Sciences Research	Fall/Spring/Summer	3