

PH.D. IN BIOMEDICAL SCIENCES

Requirements Effective Fall 2021

Code	Title	Credits
Core Courses		
GRAD 544	Ethical Conduct of Research	1
Select one group from the following:		4-8
Group A:		
BC 563 & BC 565	Molecular Genetics and Molecular Regulation of Cell Function	
Group B:		
BC 563 or BC 565	Molecular Genetics Molecular Regulation of Cell Function	
Select one group from the following:		4-8
Group A:		
BMS 500 & BMS 501	Mammalian Physiology I and Mammalian Physiology II	
Group B:		
BMS 500 or BMS 501	Mammalian Physiology I Mammalian Physiology II	
BMS 784	Supervised College Teaching	Var.
Select one group from the following:		4-8
Group A:		
BMS 792A or BMS 792B or BMS 792C	Seminar: Biomedical Sciences Seminar: Neurophysiology Seminar: Reproductive Physiology	
BMS 796A/ NB 796C or BMS 796B or BMS 796C	Group Study: Topics in Neuroscience Group Study: Cardiopulmonary Physiology Group Study: Reproductive Physiology	
Group B:		
BMS 792A or BMS 792B or BMS 792C or	Seminar: Biomedical Sciences Seminar: Neurophysiology Seminar: Reproductive Physiology	
BMS 796A/ NB 796C or BMS 796B or BMS 796C	Group Study: Topics in Neuroscience Group Study: Cardiopulmonary Physiology Group Study: Reproductive Physiology	
Selected Courses ¹		Var.
BMS 503/NB 503	Developmental Neurobiology	
BMS 505/NB 505	Neuronal Circuits, Systems and Behavior	
BMS 545	Neuroanatomy	
BMS 631	Mechanisms of Hormone Action	
BMS 632	Metabolic Endocrinology	
BMS 640	Reproductive Physiology and Endocrinology	
BMS 642	Research Techniques for Gametes and Embryos	

BMS 795A	Independent Study: Endocrinology
BMS 795B	Independent Study: Neurophysiology
BMS 795C	Independent Study: Cell Physiology
BMS 795D	Independent Study: Cardiopulmonary Physiology
BMS 795E	Independent Study: Reproductive Physiology
BMS 796A/ NB 796C	Group Study: Topics in Neuroscience
BMS 796B	Group Study: Cardiopulmonary Physiology
BMS 796C	Group Study: Reproductive Physiology
NB 502/CM 502	Techniques in Molecular & Cellular Biology
NB 771	Writing, Submitting, and Reviewing Grants
NB 793	Neuroscience Seminar
NB 796A	Group Study: Ion Channels
NB 796B	Group Study: Neuronal Growth and Regeneration
NB 796D	Group Study: Seizures and Epilepsy
NB 796E	Group Study: Neuroendocrine Mechanisms
STAR 511	Design and Data Analysis for Researchers I
STAR 512	Design and Data Analysis for Researchers II

Dissertation

BMS 799	Dissertation	Var
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Program Total Credits: 72

A minimum of 72 credits are required to complete this program.

¹ Select courses with approval of advisor and graduate committee.