BIOLOGY - PHYSIOLOGY CONCENTRATION (M.S.)

For details about this program, including program description, admission requirements, and contact information, click here (https://www.montclair.edu/graduate/programs-of-study/biology-physiology-concentration-ms/).

Program Requirements

Code	Title	Credits
Required Courses		
BIOL 524	Advanced Systemic Physiology I	3
BIOL 525	Advanced Systemic Physiology II	3
BIOL 553	Advanced Pathophysiology	3
BIOL 592	Graduate Colloquium	1
Electives		
Select 15-17 credits from the list below (15 credits required if Thesis option is chosen):		15-17
Culminating Experience		
BIOL 597	Research in Biological Literature	1
Select one of the following options:		6-4
Thesis		
BIOL 698	Master's Thesis	
Research and Comprehensive Examination		
BIOL 599	Introduction to Biological Research	
GRAD CMP	Comprehensive Examination	
Total Credits		**32**

Electives

Code	Title	Credits
BIOL 520	Plant Physiology	3
BIOL 529	Advanced Herpetology	4
BIOL 532	Advanced Entomology	3
BIOL 533	Advanced Cell Biology	3
BIOL 542	Advanced Endocrinology	3
BIOL 543	Advances in Immunology	3
BIOL 544	Advanced Comparative Animal Physiology	3
BIOL 546	Special Topics in Physiology	3
BIOL 547	Molecular Biology I	3
BIOL 549	Special Topics in Developmental Biology	3
BIOL 552	Biology of Lipids	3
BIOL 554	Microbial Physiology	3
BIOL 555	Medical Genetics	3
BIOL 556	Molecular Biology of Proteins	3
BIOL 557	Virology	3
BIOL 568	Advanced Neuroscience	3
BIOL 570	Ecology	3
BIOL 571	Physiological Plant Ecology	4
BIOL 579	Physiological Ecology of Animals	3
BIOL 586	Special Topics in Advanced Biology	3-4
BIOL 588	Special Topics in Advanced Physiology	3-4
STAT 537	Design and Analysis of Experiments	3
STAT 538	Regression Methods	3
STAT 546	Non-Parametric Statistics	3

Code	Title	Credits
BIOL 520	Plant Physiology	3
BIOL 529	Advanced Herpetology	4
BIOL 532	Advanced Entomology	3
BIOL 533	Advanced Cell Biology	3
BIOL 542	Advanced Endocrinology	3
BIOL 543	Advances in Immunology	3
BIOL 544	Advanced Comparative Animal Physiology	3
BIOL 546	Special Topics in Physiology	3
BIOL 547	Molecular Biology I	3
BIOL 549	Special Topics in Developmental Biology	3
BIOL 552	Biology of Lipids	3
BIOL 554	Microbial Physiology	3
BIOL 555	Medical Genetics	3
BIOL 556	Molecular Biology of Proteins	3
BIOL 557	Virology	3
BIOL 568	Advanced Neuroscience	3
BIOL 570	Ecology	3
BIOL 571	Physiological Plant Ecology	4
BIOL 579	Physiological Ecology of Animals	3
BIOL 586	Special Topics in Advanced Biology	3-4
BIOL 588	Special Topics in Advanced Physiology	3-4
STAT 537	Design and Analysis of Experiments	3
STAT 538	Regression Methods	3
STAT 546	Non-Parametric Statistics	3