

Classes that may satisfy MCIP requirements - pending advisor approval

(Rev. February 2022)

In addition to the core courses, MCIP degree requirements (2019) stipulate that students should complete one course (4 units) in Statistics, one course or certificate in the Responsible Conduct of Research (1-2 units), and two specialization courses (6 units).

Note: Veterinary and Medical School 400 courses, upon written approval of professor and advisor, can be used to satisfy the sub-specialty course requirements

Dept. Code	Course Number	Qtr Previously offered Contact Department to confirm	Units	Title	Department	Comments
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CARDIORESPIRATORY

NPB	113	F	4	Cardiovascular, Respiratory & Renal Physiology	Neurophysiology, Physiology & Behavior	
PHA	208	S (alt)	3	Advanced Cardiac Physiology and Pharmacology	Med: Pharmacology & Toxicology	
VMB	254	W (alt)	3	Toxicology of the Respiratory System	Vet Med: Molecular Biosciences	

CELLULAR

ANG	111	F	4	Molecular Biology Laboratory Techniques	Animal Genetics	
AVS	103	F	3	Avian Development and Genetics	Avian Sciences	
BCB	210	F	3	Molecular Genetics and Genomics	BMCDB Graduate Group	
BCB	212	W	3	Cell Biology	BMCDB Graduate Group	
BCB	213	W	3	Developmental Biology	BMCDB Graduate Group	
BCB	214	S	3	Molecular Biology	BMCDB Graduate Group	
BCB	255	W (alt)	3	Molecular Mechanisms in Pattern Formation and Development	BMCDB Graduate Group	
BCB	256	W (alt)	3	Cell and Molecular Biology of Cancer	BMCDB Graduate Group	
BCB	257	F	3	Cellular Proliferation and Cancer Genes	BMCDB Graduate Group	
BPH	241	S	3	Membrane Biology	Biophysics Graduate Group	
EXB	110	S	3	Exercise Metabolism	NPB: Exercise Biology	
MCB	140L	W	5	Cell Biology Laboratory	Molecular Cellular Biology	
MCB	145	S	3	Assembly and Function of Cell Signaling Machinery	Molecular Cellular Biology	
MCB	163	F	3	Developmental Genetics	Molecular Cellular Biology	
MCP	234	S (alt)	3	Current Topics in Neurotoxicology	MCIP Graduate Group	Same as ETX 234
MCP	255	S	2	Physiology of the Stress Response	MCIP Graduate Group	Same as ABG 255
MIC	215	F	3	Recombinant DNA	Microbiology	
NPB	107	W	3	Cell Signaling in Health & Disease	Neurophysiology, Physiology & Behavior	
NSC	221	F	4	Cellular Neurophysiology	Neuroscience Graduate Group	
NSC	224A	S	2	Molecular and Developmental Neurobiology	Neuroscience Graduate Group	
NSC	224B	S	2	Molecular and Developmental Neurobiology	Neuroscience Graduate Group	
PHA	207	W	3	Drug Discovery and Development	Med: Pharmacology & Toxicology	
PHA	225	S	3	Gene and Cellular Therapies	Med: Pharmacology & Toxicology	

COMPARATIVE

ANS	123	S	4	Animal Growth and Development	Animal Science	
ANS	124	W	4	Lactation	Animal Science	
ENT	102	W	4	Insect Physiology	Entomology	
MCP	220	S (alt)	3	General & Comparative Physiology of Reproduction	MCIP Graduate Group	
MCP	242	F (alt)	3	Biological Rhythms	MCIP Graduate Group	
NPB	118	S	3	Comparative Biomechanics	Neurophysiology, Physiology & Behavior	
NPB	121	W	4	Physiology of Reproduction	Neurophysiology, Physiology & Behavior	

NPB	123	F	4	Comparative Vertebrate Organology	Neurophysiology, Physiology & Behavior	
NPB	124	W	3	Comparative Neuroanatomy	Neurophysiology, Physiology & Behavior	
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior	
NPB	140	W	3	Principles of Environmental Physiology	Neurophysiology, Physiology & Behavior	
NPB	217	F	1	Advanced Avian Physiology	Neurophysiology, Physiology & Behavior	
NSC	201	F (alt)	3	Neuroanatomy	Neuroscience Graduate Group	
WFC	130	W	4	Physiological Ecology of Wildlife	Wildlife, Fish & Conservation Biology	

DEVELOPMENT

BCB	251	F (alt)	3	Molecular Mechanisms in Early Development	BMCDB Graduate Group	
BCB	255	W (alt)	3	Molecular Mechanisms in Pattern Formation & Development	BMCDB Graduate Group	
NSC	224A	S	2	Molecular and Developmental Neurobiology	Neuroscience Graduate Group	
NSC	224B	S	2	Molecular and Developmental Neurobiology	Neuroscience Graduate Group	

ENDOCRINOLOGY

NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior	
NPB	152	S	3	Hormones and Behavior	Neurophysiology, Physiology & Behavior	

EXERCISE

BIM	232	S	3	Skeletal Tissue Mechanics	Engineering: Biomedical Engineering	
EXB	110	S	3	Exercise Metabolism	NPB: Exercise Biology	
EXB	124	S	4	Physiology of Maximal Human Performance	Neurophysiology, Physiology & Behavior	
MCP	242	F (alt)	3	Biological Rhythms	MCIP Graduate Group	
NPB	109	S	4	Kinesiology: Analysis & Control of Human Movement	Neurophysiology, Physiology & Behavior	
NPB	116	W	3	Stress Physiology in Health & Disease	Neurophysiology, Physiology & Behavior	
NPB	123	F	4	Comparative Vertebrate Organology	Neurophysiology, Physiology & Behavior	
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior	
NPB	140	W	3	Principles of Environmental Physiology	Neurophysiology, Physiology & Behavior	
NUT	112	S	4	Nutritional Assessment	Nutrition	
NUT	253	S (alt)	3	Control of Energy Balance and Body Weight	Nutrition	

IMMUNOLOGY

IMM	201	F	4	Introductory Immunology	Immunology Graduate Group	
IMM	293	W	4	Current Concepts in Immunology	Immunology Graduate Group	
NPB	134	S (alt)	3	General Immunology for Physiologists	Neurophysiology, Physiology & Behavior	
NPB	171	F	4	Physiology of Neuroimmune Interactions	Neurophysiology, Physiology & Behavior	

NEUROPHYSIOLOGY

MCP	234	S (alt)	3	Current Topics in Neurotoxicology	MCIP Graduate Group	Same as ETX 234
NPB	100	F. W. S	4	Neurobiology	Neurophysiology, Physiology & Behavior	
NPB	100L	S	3	Neurobiology Laboratory	Neurophysiology, Physiology & Behavior	
NPB	163	S	4	Systems Neuroscience	Neurophysiology, Physiology & Behavior	
NPB	222	W	5	Systems Neuroscience	Neurophysiology, Physiology & Behavior	Same as NSC 222
NSC	222	W	5	Systems Neuroscience	Neuroscience	Same as NPB 222
NSC	223	S	4	Cognitive Neuroscience	Neuroscience	
NSC	221	F	4	Cellular Neurophysiology	Neuroscience	

REPRODUCTION

ANS	127	S	3	Advanced Equine Reproduction	Animal Science	
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BCB	251	F (alt)	3	Molecular Mechanisms in Early Development	BMCDB Graduate Group
BCB	255	W (alt)	3	Molecular Mechanisms in Pattern Formation & Development	BMCDB Graduate Group
MCP	220	S (alt)	3	Physiology of Reproduction	MCIP Graduate Group
MCP	222	S	3	Mammalian Gametogenesis and Fertilization	MCIP Graduate Group
NPB	121	W	4	Physiology of Reproduction	Neurophysiology, Physiology & Behavior
NPB	121L	W	1	Physiology of Reproduction Laboratory	Neurophysiology, Physiology & Behavior
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior

STATISTICS

CLH	244	F	4	Introduction to Medical Statistics	Clinical Research Graduate Group
PLS	120	F	4	Applied Statistics in Agricultural Science	Plant Sciences
PLS	205	W	5	Experimental Design and Analysis	Plant Sciences
PLS	206	F	4	Applied Multivariate Modeling in Agricultural and Environmental S	Plant Sciences
SPH	244	F	4	Introduction to Medical Statistics	Graduate Group in Public Health
STA	100	all	4	Applied Statistics for Biological Sciences	Statistics
STA	106	F/W	4	Applied Statistical Methods: Analysis of Variance	Statistics
STA	108	all	4	Applied Statistical Methods: Regression Analysis	Statistics
STA	135	S	4	Multivariate Data Analysis	Statistics
STA	137	all	4	Applied Time Series Analysis	Statistics
STA	130A	F	4	Mathematical Statistics: Brief Course	Statistics
STA	130B	W	4	Mathematical Statistics: Brief Course	Statistics
STA	131A	all	4	Introduction to Probability Theory	Statistics
STA	131B	all	4	Introduction to Mathematical Statistics	Statistics
STA	131C	S	4	Introduction to Mathematical Statistics	Statistics

SYSTEMIC

APC	291	all	1	Topics in Biology of Respiratory System	Vet Med: Anatomy, Physiology & Cell Biology
BIM	228	F (alt)	4	Skeletal Muscle Mechanics: Form, Function, Adaptability	Engineering: Biomedical Engineering
EXB	124	S (alt)	4	Physiology of Maximal Human Performance	Neurophysiology, Physiology & Behavior
MCP	220	S (alt)	3	Physiology of Reproduction	MCIP Graduate Group
MCP	242	F (alt)	3	Biological Rhythms	MCIP Graduate Group
MCP	255	S (alt)	2	Physiology of the Stress Response	MCIP Graduate Group
NPB	101	all	5	Systemic Physiology	Neurophysiology, Physiology & Behavior
NPB	101L	all	3	Systemic Physiology Laboratory	Neurophysiology, Physiology & Behavior
NPB	114	F	3	Gastrointestinal Physiology	Neurophysiology, Physiology & Behavior
NPB	121	W	4	Physiology of Reproduction	Neurophysiology, Physiology & Behavior
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior
NPB	140	W	3	Principles of Environmental Physiology	Neurophysiology, Physiology & Behavior
NPB	163	S	4	Systems Neuroscience	Neurophysiology, Physiology & Behavior
NPB	134	S (alt)	4	Mammalian Vision	Neurophysiology, Physiology & Behavior
NPB	168	all	4	Neurobiology of Addictive Drugs	Neurophysiology, Physiology & Behavior
NSC	222	W	5	Systems Neuroscience	Neuroscience Graduate Group
NSC	223	S	4	Cognitive Neuroscience	Neuroscience Graduate Group
PTX	201	F	5	Principles of Pharmacology and Toxicology I	Pharmacology & Toxicology
PTX	202	W	4	Principles of Pharmacology and Toxicology II	Pharmacology & Toxicology
PTX	203	S	4	Principles of Pharmacology and Toxicology III	Pharmacology & Toxicology
WFC	120	F	3	Biology and Conservation of Fishes	Wildlife, Fish and Conservation Biology

STRUCTURAL, MOLECULAR, ANATOMY & LAB

ANG	111	F	4	Molecular Biology Laboratory Techniques	Animal Genetics	
ANS	137	S	3	Techniques and Practices of Avian Culture	Animal Science	
APC	100	W	4	Comparative Vertebrate Organology	Vet Med: Anatomy, Physiology & Cell Biology	Same as NPB 123
BCB	214	S	3	Molecular Biology	BMCDB Graduate Group	
CHA	101	W, S	4	Human Gross Anatomy	Medicine: Cell Biology & Human Anatomy	
CHA	101L	W, S	3	Human Gross Anatomy Laboratory	Medicine: Cell Biology & Human Anatomy	
CHA	202	W	3	Microscopic Anatomy for Researchers	Medicine: Cell Biology & Human Anatomy	
ENT	100	F, S	4	General Entomology	Entomology	
ENT	100L	F	2	General Entomology Laboratory	Entomology	
EVE	105	S (alt)	4	Phylogenetic Analysis of Vertebrate Structure	Evolution & Ecology	
MCB	120L	all	3	Molecular Biology and Biochemistry Laboratory	Molecular and Cellular Biology	
MCB	121	all	3	Advanced Molecular Biology	Molecular and Cellular Biology	
MCB	140L	W	5	Cell Biology Laboratory	Molecular and Cellular Biology	
MCP	215	S (alt)	3	Electrophysiology Techniques and Applications	MCIP Graduate Group	
NSC	201	W	3	Neuroanatomy	Neuroscience Graduate Group	