Courses that may satisfy MCIP requirements - pending advisor approval

(as of 1/28/15)

Consult the Class Schedule for course availability

Note: Veterinary and Medical School 400 courses, upon written approval of professor and advisor, and be used to satisfy the sub-specialty course requirements Dept. Course Oir Units Trite Department Commerts		Consult the Class Schedule for course availability									
can be used to satisfy the sub-specialty course requirements Dept. Course Course Carr Course Cours		SUBSPECIALTY AREAS9 units and three courses minimum two of which must be 200 level									
Dept. Course Oir Code Number Offered	Note: Veterinary and Medical School 400 courses, upon written approval of professor and advisor,										
Carbin C	can be										
Carbin C											
CARDIORESPIRATORY BIM 214 W 4 Blood Cell Biomechanics Engineering: Biomedical Engineering CAR 220 S (alt) 1 Basic Science in Cardiology Internal Medicine: Clinical Research Part of DE in Translational Resident Programment Part of DE in Translational Resident Part of De in Translational Residen	Dept.	Course	Qtr	Units	Title	Department	Comments				
Bilba 214	Code	Number	Offered								
Bib 214	CARDIO	ARDIORESPIRATORY									
CAR 220 S (alt) 1 Basic Science in Cardiology Internal Medicine: Clinical Research Part of DE in Translational Residual Clinical Clinical Research Part of DE in Translational Residual Clinical Clinical Research Part of DE in Translational Residual Clinical Clinical Research Part of DE in Translational Residual Clinical Clinical Research Part of DE in Translational Residual Clinical Clinical Research Part of DE in Translational Residual Clinical Clinical Residual Clinical Clinical Residual Clinical Clin				4	Blood Cell Biomechanics	Engineering: Biomedical Engineering					
CLI 230 W 3 Congestive Heart Failure, Mechanism of Disease Medicine: Clinical Research Part of DE in Translational Research NPB 131 F 4 Cardiovascular, Respiratory & Renal Physiology Internal Medicine: Hematology-Oncology NPB 133 F 4 Cardiovascular, Respiratory & Renal Physiology Neurophysiology, Physiology & Behavior NPB 127 W (irregular) 3 Comparative Physiology and Parmacology Neurophysiology, Physiology & Behavior Neurophysiology, Physiology & Behavior Last offered 200801 Neurophysiology, Physiology, Physiology & Behavior Last offered 200801 Neurophysiology, Physiology, Physiology & Behavior Last offered 200801 Neurophysiology, Physiology, Physiology, Physiology, Physiology, Physiology & Behavior Last offered 200801 Neurophysiology, Physiology, P	CAR		S (alt)	1	Basic Science in Cardiology						
HON 298							Part of DE in Translational Research				
NPB 113	HON	298	all			Internal Medicine: Hematology-Oncology					
NPB 127 W (irregular) 3 Comparative Physiology. Circulation Neurophysiology, Physiology & Behavior Last offered 200801						Neurophysiology, Physiology & Behavior					
PHA 208 S 3 Advanced Cardiac Physiology and Parmacology		127	W (irregular)	3			Last offered 200801				
CELLULAR	PHA	208				1 7 67. 7 67					
CELLULAR ANG 1111 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 Formerly MCB 210 BCB 212 W 4 Cellular Biochemistry BMCDB Graduate Group Formerly MCB 221D BCB 213 W 3 Developmental Biology BMCDB Graduate Group Formerly MCB 221D BCB 214 S 3 Molecular Biology BMCDB Graduate Group Formerly MCB 213 BCB 214 S 4 Molecular Biology BMCDB Graduate Group Formerly MCB 214 BCB 255 F (alt) 3 Molecular Biology BMCDB Graduate Group Formerly MCB 221C BCB 256 F 2 Cell and Molecular Biology BMCDB Graduate Group Formerly MCB 221C BCB 257 F 3 Cellular Proliferation and Cancer Genes BMCDB Graduate Group Formerly MCB 255 BCB 257 F 3 Cellular Proliferation and Cancer Genes BMCDB Graduate Group Formerly MCB 257 BCB 258 110 S 3 Exercise Metabolism NPB: Exercise Biology EXB 110 S 3 Exercise Metabolism NPB: Exercise Biology MCB 161 W 3 Molecular Genetics Molecular Biology MCB 161 W 3 Molecular Genetics Molecular Cellular Biology MCB 163 W 3 Developmental Genetics Molecular Cellular Biology MCB 163 W 3 Molecular Genetics Molecular Cellular Biology MCP 219 S (alt) 3 Muscle Growth and Development MCP 255 S 2 Physiology of the Stress Response MCIP Graduate Group Same as ETX 234 MCP 255 S 2 Cellular Physiology MIcrobiology Micr	VMB	254	W (alt)								
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MIC 215 F 3 Recombinant DNA Microbiology NPB 103 W (irregular) 3 Cellular Physiology/Neurobiology Neurophysiology, Physiology & Behavior Last offered 201001	MCP	255	S	2		MCIP Graduate Group					
MIC 215 F 3 Recombinant DNA Microbiology NPB 103 W (irregular) 3 Cellular Physiology/Neurobiology Neurophysiology, Physiology & Behavior Last offered 201001	MIC	140	F	3	Bacterial Physiology	Microbiology	Last offered 201110				
NPB 103 W (irregular) 3 Cellular Physiology/Neurobiology Neurophysiology, Physiology & Behavior Last offered 201001	MIC	215	F	3		Microbiology					
			W (irregular)	3	Cellular Physiology/Neurobiology		Last offered 201001				
	NSC				Cellular Neurophysiology						
NSC 243 S 2 Topics in Cellular and Behavioral Neurobiology Neuroscience				2	Topics in Cellular and Behavioral Neurobiology						

	224A	W	2	Molecular and Developmental Neurobiology	Neuroscience			
	224B	S	2	Molecular and Developmental Neurobiology	Neuroscience			
PHA	207	W	3	Drug Discovery and Development				
PHA	250	S	3	Functional Genomics: From Bench to Bedside				
COMPAR	RATIVE					<u> </u>		
	123	S	4	Animal Growth and Development	Animal Science			
	124	W	4	Lactation	Animal Science			
	227	W	4	Research Techniques in Biomechanics	Engineering: Biomedical Engineering	Last offered 201101		
	231	S	4	Musculo-Skeletal System Biomechanics	Engineering: Biomedical Engineering			
	240	S	3	Biochemical Endocrinology	Endocrinology			
	102	W	4	Insect Physiology	Entomology			
ENT	292	all (irregular)	2	Seminar in Insect Physiology	Entomology			
MCP	220	S	3	General and Comparative Physiology of Reproduction	MCIP Graduate Group			
	242	F	3	Biological Rhythms	MCIP Graduate Group			
NPB	117	S	3	Avian Physiology	Neurophysiology, Physiology & Behavior			
NPB	121	W	4	Physiology of Reproduction	Neurophysiology, Physiology & Behavior			
NPB	123	W	4	Comparative Vertebrate Organology	Neurophysiology, Physiology & Behavior			
NPB	127	W (irregular)	3	Comparative Physiology: Circulation	Neurophysiology, Physiology & Behavior	Last offered 200801		
NPB	128	Summer	3	Comparative Physiology: Endocrinology	Neurophysiology, Physiology & Behavior	Summer offerring		
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior			
NPB	140	W	3	Principles of Environmental Physiology	Neurophysiology, Physiology & Behavior			
NPB	141P	S	5	Physiological Adaptation of Marine Organisms	Neurophysiology, Physiology & Behavior	Residency at BML required		
NSC	201	F	3	Neuroanatomy	Neuroscience	·		
NUT	202	S	2	Advanced Nutritional Energetics	Neurophysiology, Physiology & Behavior			
NUT	254	W (alt)	3	Applications of Systems Analysis in Nutrition	Neurophysiology, Physiology & Behavior	Last offered 201001		
WFC	130	W	4	Physiological Ecology of Wildlife	Wildlife, Fish & Conservation Biology			
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DEVELO	PMEN	Γ						
MCB	263	W	2	Biotechnology Fundamentals and Application				
MCB	258	W	2	Seminar in Development		Last offered 201101		
NSC 2	224A	W	2	Molecular and Developmental Neurobiology	Neuroscience			
NSC 2	224B	S	2	Molecular and Developmental Neurobiology	Neuroscience			
ENDOCR	RINOLO	OGY						
	218	S	4	Mammalian Endocrinology and Homeostasis	Endocrinology	Last offered 200803		
	220	F/W/S	1	Endocrinology Literature Critique	Endocrinology			
	240	S	3	Biochemical Endocrinology	Endocrinology			
NPB	128	Summer	3	Comparative Physiology: Endocrinology	Neurophysiology, Physiology & Behavior	Summer offerring		
	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior	_		
NPB	152	S	3	Hormones and Behavior	Neurophysiology, Physiology & Behavior			
EXERCIS	<u>SE</u>							
	126	W	3	Tissue Mechanics	Engineering: Biomedical Engineering			
	227	W	4	Research Techniques in Biomechanics	Engineering: Biomedical Engineering	Last offered 201101		
	228	F	4	Skeletal Muscle Mechanics: Form, Function, Adaptability	Engineering: Biomedical Engineering			
BIM	231	S	4	Musculo-Skeletal System Biomechanics	Engineering: Biomedical Engineering			

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BIM	232	S	3	Skeletal Tissue Mechanics	Engineering: Biomedical Engineering	
EXB	110	S	3	Exercise Metabolism	NPB: Exercise Biology	
EXB	111	W	3	Environmental Effects on Physical Performance	NPB: Exercise Biology	
EXB	112	W	4	Clinical Exercise Physiology	NPB: Exercise Biology	
EXB	115	F	3	Biomechanical Bases of Movement	NPB: Exercise Biology	
EXB	124	W	4	Physiology of Maximal Human Performance	Neurophysiology, Physiology & Behavior	
EXS	201	F	3	Exercise Cardioresp Physiol	MCIP Graduate Group	
EXS	206	S	3	Exercise Metabolism	MCIP Graduate Group	
MCP	242	F	3	Biological Rhythms	MCIP Graduate Group	
NPB	123	W	4	Comparative Organology of Vertebrates	Neurophysiology, Physiology & Behavior	
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior	
NPB	140	W		Principles of Environmental Physiology	Neurophysiology, Physiology & Behavior	
NUT	112	S		Nutritional Assessment	Nutrition	
NUT	202	S		Advanced Nutritional Energetics	Nutrition	
NUT	253	S (alt)	3	Control of Food Intake	Nutrition	
IMMUN						
IMM	201	F		Introductory Immunology		
IMM	293	W	4	Current Concepts in Immunology		
NEURO				la de la companya de	In the Company of the Company	
CHA	203	S		Neurobiology	Medicine: Cell Biology & Human Anatomy	
MCP	234	S		Current Topics in Neurotoxicology	MCIP Graduate Group	Same as ETX 234
NPB		W (irregular)		Cellular Physiology/Neurobiology	Neurophysiology, Physiology & Behavior	Last offered 201001
NPB	104L	W	4	Cellular Physiology/Neurobiology Laboratory	Neurophysiology, Physiology & Behavior	
NPB	161	W		Developmental Neurobiology	Neurophysiology, Physiology & Behavior	
NPB	162	S	3	Neural Mechanisms of Behavior	Neurophysiology, Physiology & Behavior	
NPB	163	S	3	Systems Neuroscience	Neurophysiology, Physiology & Behavior	
NPB	222	W	5	Systems Neuroscience	Neurophysiology, Physiology & Behavior	same course as NSC 222
NSC	222	W	5	Systems Neuroscience	Neuroscience	same course as NPB 222
NSC	223	S	4	Cognitive Neuroscience	Neuroscience	
NSC	243	S	2	Topics in Cellular and Behavioral Neurobiology	Neuroscience	Last offered 200003
NSC	250	S	2	Biology of Neuroglia	Neuroscience	Last offered 200004
NSC	283	all	1	Neurobiological Literature	Neuroscience	Last offered 200910
NSC	221	F	4	Cellular Neurophysiology	Neuroscience	
PSC	208	S	4	Physiological Psychology	Psychology	Last offered 201203
REPRO					_	
ANS	127	S		Advanced Equine Reproduction	Animal Science	
BCB	251	F (alt)		Molecular Mechanisms in Early Development	BMCDB Graduate Group	DE - Formerly MCB 251
BCB	255	S (alt)		Molecular Mechanisms in Animal Development	BMCDB Graduate Group	Formerly MCB 255
EDO	218	S		Mammalian Endocrinology and Homeostasis	Endocrinology	Last offered 200803
EDO	240	S	3	Biochemical Endocrinology	Endocrinology	
ETX	250	W (alt)	3	Reproductive Toxicology	Environmental Toxicology	DE
MCP	220	S	3	General and Comparative Physiology of Reproduction	MCIP Graduate Group	DE
MCP	222	S	3	Mammalian Gametogenesis and Fertilization	MCIP Graduate Group	DE
NPB	121	W	4	Physiology of Reproduction	Neurophysiology, Physiology & Behavior	
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior	
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NPB	121L	W	1	Physiology of Reproduction Laboratory	Neurophysiology, Physiology & Behavior	
YSTE	MIC.					
APC	291	all	1	Topics in Biology of Respiratory System	Vet Med: Anatomy, Physiology & Cell Biology	
BIM	227	W	4	Research Techniques in Biomechanics	Engineering: Biomedical Engineering	Last offered 201101
BIM	228	F	4	Skeletal Muscle Mechanics: Form, Function, Adaptability	Engineering: Biomedical Engineering	20010100201101
BIM	231	S	4	Musculoskeletal System Biomechanics	Engineering: Biomedical Engineering	
EXB	110	S	3	Exercise Metabolism	NPB: Exercise Biology	
EXB	111	W	3	Environmental Effects on Physical Performance	NPB: Exercise Biology	
EXB	124	W	4	Physiology of Maximal Human Performance	Neurophysiology, Physiology & Behavior	
MCP	220	S	3	General and Comparative Physiology of Reproduction	MCIP Graduate Group	
MCP	242	F	3	Biological Rhythms	MCIP Graduate Group	
MCP	255	S	2	Physiology of the Stress Response	MCIP Graduate Group	
NPB	112	irregular	3	Neuroscience	Neurophysiology, Physiology & Behavior	Last offered 201101
NPB	113	F	4	Cardiovascular, Respiratory & Renal Physiology	Neurophysiology, Physiology & Behavior	
NPB	114	F	3	Gastrointestinal Physiology	Neurophysiology, Physiology & Behavior	
NPB	117	S	3	Avian Physiology	Neurophysiology, Physiology & Behavior	
NPB	121	W	4	Physiology of Reproduction	Neurophysiology, Physiology & Behavior	
NPB	127	W (irregular)	3	Comparative Physiology: Circulation	Neurophysiology, Physiology & Behavior	Last offered 200801
NPB	128	Summer	3	Comparative Physiology: Endocrinology	Neurophysiology, Physiology & Behavior	Summer offering
NPB	130	F	4	Physiology of the Endocrine Glands	Neurophysiology, Physiology & Behavior	
NPB	140	W	3	Principles of Environmental Physiology	Neurophysiology, Physiology & Behavior	
NPB	160	S	3	Molecular and Cellular Neurobiology	Neurophysiology, Physiology & Behavior	Last offered 201003
NPB	161	W	3	Developmental Neurobiology	Neurophysiology, Physiology & Behavior	
NPB	162	S	3	Neural Mechanisms of Behavior	Neurophysiology, Physiology & Behavior	
NPB	163	S	3	Systems Neuroscience	Neurophysiology, Physiology & Behavior	
NPB	168	S	4	Neurobiology of Addictive Drugs	Neurophysiology, Physiology & Behavior	
NPB	132	F	3	Nature vs. Nurture: Physiological Interactions Among Genes, Nut		
NSC	222	W	5	Systems Neuroscience	Neuroscience	
NSC	223	S	4	Cognitive Neuroscience	Neuroscience	
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	102	S	1	Field Studies in Fish Biology	Wildlife, Fish and Conservation Biology	
WFC	120	F	3	Biology and Conservation of Fishes	Wildlife, Fish and Conservation Biology	
TATIS	TICS					
EPI	204A	W	4	Foundation of statistical models, methods, and data analysis for	scientists	
MPM	402	F	5	Medical Statistics I	Vet Med: Preventive Veterinary Medicine	
MPM	403	W	3	Medical Statistics II	Vet Med: Preventive Veterinary Medicine	
PHR	202	W (alt)	3	Sampling in Health-Related Research	Vet Med: Population Health & Reproduction	
PHR	203	W (alt)	3	Multivariate Biostatistics	Vet Med: Population Health & Reproduction	
PLS	205	Ŵ	5	Experimental Design and Analysis	Plant Sciences	
PLS	206	F	4	Applied Multivariate Modeling in Agricultural and Environmental S	Plant Sciences	
PLS	120	F	4	Applied Statistics in Agricultural Science	Plant Sciences	
STA	100	all	4	Applied Statistics for Biological Sciences	Statistics	
STA	106	F/W	4	Applied Statistical Methods: Analysis of Variance	Statistics	

Statistics

Statistics

F/W

4 Applied Statistical Methods: Analysis of Variance

4 Applied Statistical Methods: Regression Analysis

STA

STA

106

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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
STA	135	S	4	Multivariate Data Analysis	Statistics
STA	137	S	4	Applied Time Series Analysis	Statistics

STRUCTURAL, MOLECULAR, ANATOMY & LAB

ANG	111	F	4	Molecular Biology Laboratory Techniques	Animal Genetics	
ANS	137	F, S	2	Animal Biochemistry Laboratory	Animal Science	Lab
APC	100	W	4	Comparative Organology of Vertebrates	Vet Med: Anatomy, Physiology & Cell Biology	same as NPB 123
BCB	214	S	3	Molecular Biology	BMCDB Graduate Group	Lecture Formerly MCB 214
CHA	101	W		Human Gross Anatomy	Medicine: Cell Biology & Human Anatomy	Lecture
CHA	101L	W	3	Human Gross Anatomy Laboratory	Medicine: Cell Biology & Human Anatomy	Lab
CHA	200	W	6	Graduate Human Gross Anatomy	Medicine: Cell Biology & Human Anatomy	Both
CHA	202	W	5	Human Microscopic Anatomy	Medicine: Cell Biology & Human Anatomy	Both
ENT	100	F/S	4	General Entomology	Entomology	Lecture
ENT	100L	F	2	General Entomology Laboratory	Entomology	Lab
EVE	105	W	4	Phylogenetic Analysis of Vertebrate Structure	Evolution & Ecology	Lecture
MCB	121	all	3	Advanced Molecular Biology	Molecular and Cellular Biology	Lecture
MCB	120L	all	6	Molecular Biology and Biochemistry Laboratory	Molecular and Cellular Biology	Both
MCB	140L	W	5	Cell Biology Laboratory	Molecular and Cellular Biology	Lab
MCP	200L	W	4	Animal Cell Culture	MCIP Graduate Group	Lab
MCP	215	S	3	Electrophysiology Techniques and Applications	MCIP Graduate Group	Lab
NPB	104L	W	4	Cellular Physiology/Neurobiology Laboratory	Neurophysiology, Physiology & Behavior	Lab
NPB	111L	F	4	Advanced Systemic Physiology Laboratory	Neurophysiology, Physiology & Behavior	Lab
NSC	201	F	3	Neuroanatomy	Neuroscience	Lab
PLS	211	S	2	Principles and Practices of HPLC	Plant Sciences	Lab / Last offered 200903