

Graduate School of Biomedical Sciences						
Course Matrix 2007-09						
	Fall 07	Spring 08	Sum 08	Fall 08	Spring 09	Sum 09
Biomedical Sciences						
Intro to Biomedical Sciences (BMSC 5000)			X			X
Scientific Communications (BMSC 5010)	X	X		X	X	
Clinical Practice Preceptorship (BMSC 5100)			X			X
Principles of Epidemiology and Evidence-based Medicine (BMSC 5150)	X			X		
Biostatistics (BMSC 5200)			X			X
Tools for Teaching Science (BMSC 5300)			X			X
Educational Instrumentation & Eval (BMSC 5310)	X			X		
Issues in Higher Professional Education (BMSC 5320)	X			X		
Regulation of Human Subject Research (BMSC 5400)	X			X		
Topics in Biomedical Sciences (BMSC 5500)			X			X
Intro to Clinical Research and Studies (BMSC 5510)		X			X	
Ethical, Legal, and Social Issues for Responsible Clinical Research (BMSC 5520)						
Introduction to Health Disparities in the United States (BMSC 5530)	X			X		
Intro to Laboratory Techniques for Biomedical Sciences (BMSC 5540)	X			X		
Laboratory Management (BMSC 5550)	X	X		X	X	
Integrative Biomedical Sciences I: Introduction to Biochemistry (BMSC 5600)	X			X		
Integrative Biomedical Sciences II: Molecular Cell Biology (BMSC 5610)	X			X		
Laboratory Rotations (BMSC 5650)	X	X	X	X	X	X
Integrative Biomedical Sciences III: Physiology (BMSC 5700)		X			X	
Integrative Biomedical Sciences IV: Pharmacology (BMSC 5705)		X			X	
Integrative Biomedical Sciences V: Immunology and Microbiology (BMSC 5710)		X			X	
Novel Macromolecules that Regulate the Cell Cycle (BMSC 5720)	X	X		X	X	
Current Topics in Glaucoma (BMSC 5730)	X	X		X	X	
Special Problems (BMSC 5900)	X	X	X	X	X	X
Special Problems (BMSC 5910)	X	X	X	X	X	X
Internship Practicum (BMSC 5920)	X	X	X	X	X	X
Individual Research (BMSC 5930)	X	X	X	X	X	X
Introduction to Faculty Research Programs (BMSC 5935)	X	X		X	X	

Seminar in Current Topics (BMSC 5940)	X	X	X	X	X	X
Thesis (BMSC 5950)	X	X	X	X	X	X
Biomedical Ethics (BMSC 5960)	X			X		
Introduction to Industry Practice (BMSC 5965)		X			X	
Techniques in Biomedical Sciences (BMSC 5970)	X	X	X	X	X	X
Grant Writing (BMSC 6010)	X	X		X	X	
Special Problems (BMSC 6900)	X	X	X	X	X	X
Special Problems (BMSC 6910)	X	X	X	X	X	X
Individual Research (BMSC 6940)	X	X	X	X	X	X
Doctoral Dissertation (BMSC 6950)	X	X	X	X	X	X

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Biochemistry and Molecular Biology						
Advanced Biochemistry (BIOC 5425)				X		
Molecular Aspects of Cell Signaling (BIOC 5435)	X					
Signal Transduction (BIOC 5510)	X	X		X	X	
Enzyme Regulation and Mechanism (BIOC 5520)	X			X		
Structure and Function of Proteins (BIOC 5530)		X			X	
Advanced Lipoprotein Metabolism (BIOC 5540)	X			X		
Current Topics in Cancer Biology (BIOC 5560)	X			X		
Special Problems (BIOC 5900)	X	X	X	X	X	X
Special Problems (BIOC 5910)	X	X	X	X	X	X
Seminar in Cell Motility (BIOC 5920)		X			X	
Seminar in Current Topics (BIOC 5940)	X	X		X	X	
Cellular and Molecular Fluorescence (BIOC 6020)	X			X		
Molecular Biology of Lipid Transport (BIOC 6040)					X	
Molecular and Cell Biochemistry of Cancer (BIOC 6050)		X			X	
Advanced Biophysics (BIOC 6060)		X				
Drug Discovery & Design (BIOC 6070)				X		
Advanced Molecular Biology (BIOC 6300)	X	X		X	X	

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Cell Biology and Genetics						
Structural Neuroscience (CGEN 5000)	X			X		
Structural Anatomy (CGEN 5010)		X			X	
Embryology and Developmental Biology (CGEN 5015)		X			X	
Structural and Developmental Anatomy of the Human Genitourinary System (CGEN 5020)		X			X	
Basic and Clinical Histology (CGEN 5025)		X				
Structural and Developmental Anatomy of the Human Cardiorespiratory System (CGEN 5030)		X			X	
Structural and Developmental Anatomy of the Human Digestive System (CGEN 5040)		X			X	
Methods in Forensic Molecular Biology (CGEN 5050)			X			X
Forensic Biology: The History and Science of Human Identification (CGEN 5060)		X			X	
Biological Evidence Evaluation (CGEN 5100)	X			X		
Applications of Y-Chromosome Analysis in Forensic and Genealogical Investigations (CGEN 5101)	X			X		
Expert Testimony in Forensic Science (CGEN 5200)		X			X	
Population Genetics (CGEN 5300)		X			X	
Genetic Data Analysis (CGEN 5310)	X			X		
Non-Human Forensic Genetics (CGEN 5400)			X			
Forensic Laboratory Quality Assurance (CGEN 5500)			X			X
Current Topics in Forensic and Molecular Genetics (CGEN 5600)	X	X		X	X	
Forensic Hair Analysis (CGEN 5700)		X			X	
Blood Spatter Pattern Analysis (CGEN 5800)		X			X	
Special Problems (CGEN 5900)	X	X	X	X	X	
Special Problems (CGEN 5910)	X	X	X	X	X	
Seminar in Current Topics (CGEN 5940)	X	X		X	X	
Forensic Anthropology (CGEN 5950)		X			X	
Structural and Developmental Anatomy of the Musculoskeletal/Skin System (CGEN 6000)	X			X		
Functional Genomics and Proteomics (CGEN 6020)					X	
Methods in Molecular Biology (CGEN 6030)			X			X
Advances in Ocular Biology (CGEN 6040)	X					
Visual Sciences Seminar (CGEN 6050)	X	X		X	X	
Clinical Human Anatomy (CGEN 6060)	X	X		X	X	

Selected Topics in DNA Repair and Mutagenesis (CGEN 6070)			X			X
Diseases of the Eye (CGEN 6080)						X
Mitochondrial DNA Analysis (CGEN 6100)		X			X	
Human Genetics (CGEN 6200)					X	
Molecular Evolutionary Genetics (CGEN 6210)				X		
Current Topics in Cell Biology and Genetics (CGEN 6599)	X	X		X	X	
Special Problems in Cell Biology and Geneitics (CGEN 6690)	X	X	X	X	X	
Special Problems in Ocular Research (CGEN 6699)	X		X	X	X	

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Family Medicine						
Family Medicine Colloquium (FMED 5540)	X	X	X	X	X	X
Special Problems in Family Medicine (FMED 5900)	X	X	X	X	X	X
Special Problems in Family Medicine (FMED 5910)	X	X	X	X	X	X

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Health Psychology						
Geriatric Health Psychology (PSY 6010)		X			X	
Clinical Human Anatomy (PSY 6060)	X	X		X	X	
Health Psychology Preceptorship (PSY 6820)	X	X	X	X	X	X
Health Psychology Preceptorship (PSY 6830)	X	X	X	X	X	X
Clinical Neuropsychology and Cognitive Rehabilitation (PSY 6210)		X			X	
Basic and Clinical Pharmacology (PSY 6410)	X			X		
Psychology Research Seminar and Practicum (PSY 6610)	X	X	X	X	X	
Neurobehavioral Toxicology (PSY 6710)		X			X	
Psychophysiological Processes (PSY 6720)	X			X		
Biofeedback Methods and Behavioral Medicine (PSY 6770)		X		X		
Cardiovascular Behavioral Medicine (PSY 6780)		X			X	
Treatment Outcomes in Health Care (PSY 6810)	X			X		
Special Problems (PSY 6900)	X	X	X	X	X	
Special Problems (PSY 6910)	X	X	X	X	X	
Dissertation (PSY 6950)	X	X	X	X	X	

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Integrative Physiology						
Cardiovascular Physiology I (PSIO 5100)				X		
Cardiovascular Physiology II (PSIO 5100)					X	
Respiratory Physiology (PSIO 5200)	X					
Renal Physiology (PSIO 5300)		X				
Molecular Genetics of Cardiac and Vascular Disease (PSIO 5400)					X	
Special Problems (PSIO 5900)	X	X	X	X	X	
Special Problems (PSIO 5910)	X	X	X	X	X	
Seminar in Current Topics (PSIO 5940)	X	X		X	X	
Advances in Cardiovascular Physiology I (PSIO 6020)	X	X	X	X	X	
Advances in Cardiovascular Physiology II (PSIO 6030)	X	X	X	X	X	
Physiology of Skeletal and Smooth Muscle (PSIO 6050)	X					
Cardiovascular Regulation During Exercise (PSIO 6060)			X			
Advanced Endocrine Physiology (PSIO 6070)	X					
Advanced Autonomic Physiology (PSIO 6080)				X		
Myocardial Metabolism: Concepts and Controversies (PSIO 6090)					X	
Current Topics in Physiology (PSIO 6699)	X	X	X	X	X	

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Microbiology and Immunology						
Advanced Immunology (MICR 5050)				X		
Current Topics in Immunology (MICR 5120)	X	X	X	X	X	X
Special Problems (MICR 5900)	X	X	X	X	X	X
Special Problems (MICR 5910)	X	X	X	X	X	X
Seminar in Current Topics (MICR 5940)	X	X		X	X	
Advanced Molecular Biology (MICR 6300)	X	X		X	X	

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Osteopathic Manipulative Medicine						
Introduction to Osteopathic Research and Studies (OMMC 5510)	X	X		X	X	
Clinical Research Colloquium (OMMC 5540)	X	X		X	X	
Special Problems in Clinical Research (OMMC 5900)	X	X	X	X	X	
Special Problems in Clinical Education (OMMC 5910)	X	X	X	X	X	
Seminar in Current Topics (OMMC 5940)	X	X		X	X	
Current Topics in Musculoskeletal Medicine (OMMC 6000)	X	X	X	X	X	

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Pharmacology and Neuroscience						
Introduction to Toxicology (PHRM 5050)						X
Experimental Toxicology (PHRM 5060)						X
Neuropharmacology (PHRM 5070)		X				
Neurobiology of Aging (PHRM 5100)	X					
Intracellular Calcium Signaling (PHRM 5200)	X	X		X	X	
Special Problems in Clinical Research (PHRM 5900)	X	X	X	X	X	
Special Problems in Clinical Education (PHRM 5910)	X	X	X	X	X	
Seminar in Current Topics (PHRM 5940)	X	X		X	X	
Functional Neuroscience (PHRM 6000)	X			X		
Advances in Molecular Pharmacology (PHRM 6020)					X	
Advances in Behavioral Pharmacology (PHRM 6030)					X	
Psychiatric Disorders: From Bench to Bedside (including Substance Abuse) (PHRM 6040)		X			X	
Ocular Pharmacology (PHRM 6050)						X
Receptors and Drug Action (PHRM 6080)					X	
Basic and Clinical Pharmacology (PHRM 6410)	X			X		
Botanical Medicines and Biotechnology (PHRM 6500)		X		X	X	
Current Topics in Pharmacology (PHRM 6699)	X	X		X	X	