

FAES GRADUATE SCHOOL COURSE SCHEDULE FOR FALL 2018

Code	Course Name	Day	Class Start	Class End	Start Time	End Time	Tuition	Books (Required or Recommended)	Book Fee
BIOCHEMISTRY, CHEMISTRY, PHARMACOLOGY, AND TOXICOLOGY									
BIOC 301	Biochemistry I	M	9/10/2018	12/10/2018	5:30 PM	8:30 PM	\$504.00	Nelson DL, Cox MM. Lehninger Principles of Biochemistry. 7th ed. (required)	\$272.99
BIOC 330	Principles of Protein Structure	Th	9/13/2018	12/13/2018	5:30 PM	7:30 PM	\$336.00	Nelson DL, Cox MM. Lehninger Principles of Biochemistry. 7th ed. (recommended)	\$272.99
BIOC 527	Lipid Metabolism in Physiology and Diseases (8 weeks)	Th	9/13/2018	11/1/2018	5:00 PM	6:30 PM	\$168.00	TBA	TBA
CHEM 101	General Chemistry I	T	9/11/2018	12/11/2018	5:30 PM	8:30 PM	\$504.00	Jespersen ND. Chemistry: The Molecular Nature of Matter 7th ed. (recommended)	\$287.95
CHEM 211	Organic Chemistry I	Th	9/13/2018	12/13/2018	5:30 PM	8:30 PM	\$504.00	Klein D. Organic Chemistry. 2nd ed. (recommended)	\$300.95
PHAR 328	FDA Perspective on Drug Development	Th	9/13/2018	12/13/2018	5:30 PM	7:30 PM	\$336.00	no textbook	
PHAR 401	Medical Pharmacology	W	9/12/2018	12/12/2018	5:00 PM	8:00 PM	\$504.00	no textbook	\$92.99
PHAR 500	Principles of Clinical Pharmacology	ONLINE		-	ONLINE		\$672.00	no textbook	
PHYS 370	Single Molecule Biophysics: What Is It, and How Does It Work?	T	9/11/2018	12/11/2018	5:15 PM	7:15 PM	\$336.00	no textbook	
TOXI 303	Introduction to Toxicology	W	9/12/2018	12/12/2018	2 5:30 PM	7:30 PM	\$336.00	no textbook	
BIOINFORMATICS AND DATA SCIENCE									
BIOF 309	Introduction to Python	Th	9/13/2018	12/13/2018	5:30 PM	7:30 PM	\$336.00	VanderPlas J. Python Data Science Handbook: Essential Tools for Working with Data. 1st ed. (recommended); McKinney W. Python for Data Analysis Data Wrangling with Pandas, NumPy, and IPython 2nd ed. (recommended)	\$59.99
BIOF 312	Introduction to Perl - Online	ONLINE		-	ONLINE		\$336.00	Jamison DC. Perl Programming for Biologists. 1st ed. (recommended); Tisdal J. Beginning Perl for Bioinformatics, 2001 (recommended)	\$39.95
BIOF 339	Practical R	W	9/11/2018	12/11/2018	5:00 PM	7:00 PM	\$336.00	no textbook	
BIOF 399	Deep Learning for Healthcare Image Analysis - NEW	M	9/10/2018	12/10/2018	5:00 PM	7:00 PM	\$336.00	Goodfellow et al. Deep Learning	\$80.00
BIOF 501	Introduction to R: Step-by-Step Guide (7 weeks)	Th	9/13/2018	10/25/2018	5:30 PM	7:30 PM	\$168.00	Cotton R. Learning R: A Step-by-Step Function Guide to Data Analysis. 1st ed. (recommended)	\$34.99
BIOF 509	Applied Machine Learning	Th	9/13/2018	12/13/2018	5:00 PM	7:00 PM	\$336.00	no textbook	
BIOF 518	Theoretical and Applied Bioinformatics	M	9/10/2018	12/10/2018	5:30 PM	8:30 PM	\$504.00	Ramsden J. Bioinformatics: An Introduction. 3rd ed. (recommended); Felsenstein J. Inferring Phylogenies. 2004. (recommended)	\$79.99; \$118.95
MATH 127	Elementary Calculus I	T	9/11/2018	12/11/2018	6:00 PM	9:00 PM	\$504.00	no textbook	
MATH 215	Introduction to Linear Algebra With Applications in Statistics	M	9/10/2018	12/10/2018	6:00 PM	9:00 PM	\$504.00	Hefferon, J. Linear Algebra (required)	\$29.50
BIOLOGY AND GENETICS									
BIOL 101	Introduction to Biology	W	9/12/2018	12/12/2018	5:30 PM	7:30 PM	\$336.00	Urry et al. Campbell Biology. 11th ed. (required)	\$259.75
BIOL 222	The Human Genome - Online Hybrid	ONLINE - ONLINE - In-class meetings on 9/12, 10/24 and 12/5					\$336.00	no textbook	
BIOL 225	Protein Quality Control in Health and Disease (8 weeks)	M	10/15/2018	12/3/2018	5:45 PM	7:30 PM	\$168.00	no textbook	
BIOL 262	Research Tools for Studying Diseases	M	9/10/2018	12/10/2018	5:00 PM	7:00 PM	\$25.00	no textbook	
BIOL 313	Molecular Biology and Recombinant DNA Technology	T	9/11/2018	12/11/2018	5:30 PM	7:30 PM	\$336.00	Watson et al. Molecular Biology of the Gene. 7th ed. (required)	\$231.00
BIOL 325	Human Neuroscience	T&Th	9/11/2018	12/13/2018	5:30PM	7:00 PM	\$504.00	Bear et al. Neuroscience: Exploring the Brain. 4th ed.	\$131.99
BIOL 327	Modern Embryonic and Developmental Biology	W	9/12/2018	12/12/2018	6:30 PM	8:30 PM	\$336.00	Gilbert & Baressi. Developmental Biology (required)	\$173.93
BIOL 332	Introduction to Nanomedicine (8 weeks)	T	10/23/2018	12/11/2018	5:00 PM	6:45 PM	\$168.00	no textbook	
BIOL 356	Connective Tissue Biology - NEW	W	9/12/2018	12/12/2018	4:30 PM	6:30 PM	\$336.00	no textbook	
BIOL 422	Current Topics in Liquid-Liquid Phase Separation - NEW	T	9/11/2018	12/11/2018	5:30 PM	6:30 PM	\$168.00	no textbook	
BIOL 425	RNA Interference and CRISPR (7 weeks)	M	10/1/2018	11/30/2018	5:30 PM	7:30 PM	\$168.00	no textbook	
BIOL 450	Stem Cell Biology	Th	9/13/2018	12/13/2018	6:00 PM	7:00 PM	\$168.00	Lanza & Atala. Essentials of Stem Cell Biology 3rd ed. (recommended); Collins. Essentials of Stem Cell Biology. 2017. (recommended)	
GENE 220	Evolutionary Genetics and Genomics: From Charles Darwin to Integrated-Omics	W	9/12/2018	12/12/2018	5:30 PM	7:30 PM	\$336.00	no textbook	
GENE 500	Introduction to Medical Genetics I and II	T	9/11/2018	12/11/2018	5:30 PM	7:30 PM	\$336.00	Nussbaum et al. Thompson &Thompson Genetics in Medicine. 8th ed. (required)	\$59.99
GENE 510	Genetic Counseling: Professional Topics Seminar	F	9/7/2018	12/7/2018	1:30 PM	3:30 PM	\$672.00	no textbook	
GENE 518	Medical Genetics and Genomic Medicine: From Diagnosis to Treatment	W	9/12/2018	12/12/2018	5:30 PM	7:30 PM	\$336.00	no textbook	
IMMUNOLOGY AND MICROBIOLOGY									
IMMU 403	Basic Principles of Immunology and Hypersensitivity	W	9/12/2018	12/12/2018	5:30 PM	7:30 PM	\$336.00	Murphy K. Janeway's Immunobiology. 9th ed. (required)	\$200.00
IMMU 419	Cancer Immunotherapy	T	9/11/2018	12/11/2018	5:30 PM	7:30 PM	\$336.00	no textbook	
IMMU 521	Molecular and Cellular Mechanisms of Immunity I	Th	9/13/2018	12/13/2018	5:30 PM	7:30 PM	\$336.00	Murphy K. Janeway's Immunobiology. 9th ed. (required)	\$200.00
MICR 317	Molecular Virology	M	9/10/2018	12/10/2018	6:00 PM	8:00 PM	\$336.00	Flint et al. Principles of Virology: Volume 1 Microbiology. 4th ed. (recommended); Collier et al. Human Virology. 5th ed. (recommended)	\$100.00
MICR 325	Molecular Microbiology - NEW	Th	9/13/2018	12/13/2018	6:00 PM	9:00 PM	\$504.00	OpenStax Microbiology. Microbiology. (required)	\$55.00

LANGUAGES AND GENERAL STUDIES										
ENGL 105	Fundamental English Conversation I	M	9/10/2018	12/10/2018	4:15 PM	7:05 PM	\$480.00	Saslow & Ascher. Top Notch 3. 3rd. ed. (required)		\$54.75
ENGL 205	Intermediate English Conversation I	M	9/10/2018	12/10/2018	7:05 PM	9:55 PM	\$480.00	Saslow & Ascher. Summit 1. 3rd ed. (required)		\$54.75
ENGL 305	Advanced English Written Grammar I	T	9/11/2018	12/11/2018	4:15 PM	7:05 PM	\$480.00	Maurer J. Focus on Grammar 5. 4th. ed. (required)		\$58.75
ENGL 308	Practice Your American English Pronunciation	W	9/12/2018	12/12/2018	5:00 PM	8:00 PM	\$480.00	Grant L. Well Said: Pronunciation For Clear Communication, 4th ed.		\$68.95
ENGL 355	English Listening and Conversation: Insights into US Culture, Science and Society (10 weeks) - NEW	M&W	9/24/2018	11/26/2018	4:30 PM	6:00 PM	\$480.00	no textbook		
ENGL 375	Lunchtime Professional English Series: English for Better Workplace Communication (10 weeks) - NEW	T&Th	9/25/2018	11/27/2018	12:00 PM	1:30 PM	\$480.00	no textbook		
GENL 098	Argentine Tango 101: Learn and Dance! (7 weeks)	M	9/17/2018	11/5/2018	6:00 PM	7:45 PM	\$160.00	no textbook		
GENL 190	Buddhism—A World Tour (10 weeks) - NEW	T	9/11/2018	11/15/2018	5:30 PM	7:00 PM	\$320.00	Lopez. The Story of Buddhism. (required)		\$15.99
GENL 199	General Psychology - NEW	T	9/11/2018	12/11/2018	5:15 PM	7:15 PM	\$320.00	Meyers & Dewart. Psychology. 11th ed. (required)		\$270.75
GENL 275	Introductory American Sign Language	Th	9/13/2018	12/13/2018	5:00 PM	8:00 PM	\$480.00	Smith C. Signing Naturally: Student Workbook, Units 1-6 (Book & DVDs), 2008. (required)		\$113.50
GENL 319	Concepts in Science for MCAT Preparation	M&W	9/10/2018	12/12/2018	5:30 PM	7:30 PM	\$640.00	Princeton Review. MCAT Subject Review. 2nd ed. (recommended)		\$215.00
GENL 322	GRE Review (7 weeks) - Online		9/11/2018	10/30/2018		ONLINE	\$160.00	ETS. Official GRE Super Power Pack 7 Complete Books + Access to 3 Full-Length Practice Tests (Graduate School Test Preparation), 2nd ed. (required)		\$72.00
GENL 322	GRE Review (7 weeks) - Online		10/23/2018	12/11/2018		ONLINE	\$160.00	ETS. Official GRE Super Power Pack 7 Complete Books + Access to 3 Full-Length Practice Tests (Graduate School Test Preparation), 2nd ed. (required)		\$72.00
GENL 411	Human Nutrition: Macronutrients and Micronutrients - NEW	Th	9/13/2018	12/13/2018	5:00 PM	8:00 PM	\$480.00	Ross, A. et al. Modern Nutrition in Health and Disease 11th ed. (required)		\$204.99
GENL 505	The Forms and Functions of Science Communication (7 weeks) - NEW	W	9/12/2018	10/31/2018	5:00 PM	7:00 PM	\$160.00	no textbook		
GENL 511	Fundamentals of Teaching—Theory and Practice	T	9/11/2018	12/11/2018	5:00 PM	7:00 PM	\$320.00	no textbook		
SPAN 101	Spanish for Beginners I	W	9/12/2018	12/12/2018	5:00 PM	8:00 PM	\$480.00	Contact Instructor at dr.segu@yahoo.com for book information (required)		\$200.00
SPAN 208	Spanish for Health Care Providers	T	9/11/2018	12/11/2018	5:00 PM	8:00 PM	\$480.00	Rios J. McGraw-Hill's Complete Medical Spanish. 3rd ed. (required)		\$20.00
MEDICINE AND PHYSIOLOGY										
MEDI 275	Fundamental Principles of Histology (10 weeks)	T	9/11/2018	11/15/2018	5:00 PM	7:00 PM	\$336.00	Ovalle & Nahirney. Netter's Essential Histology. 2nd ed. (recommended)		\$82.95
MEDI 303	Introduction to Acupuncture and Traditional Chinese Medicine (8 weeks)	W	9/12/2018	11/7/2018	6:00 PM	7:45 PM	\$168.00	Veith I. The Yellow Emperor's Classic of Internal Medicine 2015 (recommended)		\$29.95
MEDI 309	Introduction to Molecular Medicine	T	9/11/2018	12/11/2018	5:30 PM	7:30 PM	\$336.00	no textbook		
MEDI 311	Principles of Endocrinology (10 weeks)	T	9/25/2018	11/27/2018	5:30 PM	8:00 PM	\$336.00	Holt R. Essential Endocrinology and Diabetes. 6th ed. (required)		\$68.95
MEDI 317	Human Physiology I	Th	9/13/2018	12/20/2018	5:00 PM	7:00 PM	\$336.00	Koeppen & Stanton. Berne and Levy Physiology. (required)		\$119.99
PUBLIC HEALTH										
PBHL 500	Introduction to Global Health	Th	9/13/2018	12/13/2018	6:00 PM	8:00 PM	\$336.00	Skolnik R. Global Health 101. 3rd ed. (required)		\$88.95
PBHL 505	Introduction to Implementation Science (7 weeks) - NEW	T	9/11/2018	10/23/2018	5:30 PM	7:30 PM	\$168.00	Brownson et al. Dissemination and Implementation Research in Health. Translating Science into Practice. (required)		\$79.95
PBHL 517	Health Policy and Administration	Th	9/13/2018	12/13/2018	6:00 PM	9:00 PM	\$504.00	Kovner AR & Knickman JR. Jonas and Kovner's Health Care Delivery in the United States. 11th ed. (required)		\$95.00
PBHL 525	Current Public Policy Topics in Science and Medicine - NEW	W	9/12/2018	12/12/2018	5:45 PM	7:45 PM	\$336.00	Bardach & Patashnik. A Practical Guide for Policy Analysis: The Eightfold Path to More Effective Problem Solving, 5th ed. (required)		\$41.00
PBHL 591	Advanced Seminar in the Evaluation of Research - NEW	M	9/10/2018	12/10/2018	5:30 PM	8:30 PM	\$504.00	Angrist P. Mastering Metrics: The Path from Cause to Effect. (required); Scriven. Reforming the Evaluation of Research. (required)	\$35.00; \$29.00	
PBHL 607	Capstone Project in Public Health	Contact Instructor	-	Contact Instructor	-	\$504.00	no textbook			
STAT 200	Experimental Statistics I	M	9/10/2018	12/10/2018	5:30 PM	8:30 PM	\$504.00	no textbook		
STAT 317	Introduction to Epidemiology - Online		ONLINE	-		ONLINE	\$504.00	Rothman KJ. Epidemiology: An Introduction. 2nd ed. (required)		\$47.95
STAT 321	Methodology in Clinical Trials	W	9/12/2018	12/12/2018	5:30 PM	8:30 PM	\$504.00	Friedman LM. Fundamentals of Clinical Trials. 5th ed. (required)		\$79.99
STAT 330	Introduction to SAS (10 weeks)	T	9/11/2018	12/11/2018	6:00 PM	7:30 PM	\$336.00	no textbook		
STAT 500	Statistics for Biomedical Scientists I and II	T	9/11/2018	12/11/2018	5:00 PM	8:00 PM	\$504.00	Rosner & Bernard. Fundamentals of Biostatistics. 8th ed. (required)		\$199.95
STAT 500 II	Statistics for Biomedical Scientists II - Online		ONLINE	-		ONLINE	\$504.00	no textbook		
TECHNOLOGY TRANSFER, BUSINESS, AND INDUSTRY										
TECH 495	The FDA: Science, Health Policy, and Regulation in an Uncertain Environment	Th	9/13/2018	12/13/2018	5:15 PM	7:15 PM	\$336.00	Hilts PJ. Protecting America's Health: the FDA, Business, and One Hundred Years of Regulation. 1st ed. (required)		\$37.50
TECH 513A	Introduction to Technology Transfer - Issues and Processes	T	9/11/2018	11/20/2018	6:00 PM	9:00 PM	\$336.00	no textbook		
TECH 521	Tools for Technology Transfer Managers—Handling Intellectual Property, Collaborations, Grants, and Agreements	M	9/10/2018	12/10/2018	5:30 PM	7:30 PM	\$336.00	no textbook		

TECH 525	Legal and Ethical Issues in Public Health and Biomedical Sciences	T	9/11/2018	12/11/2018	5:45 PM	8:45 PM	\$504.00	Andrews et al. Genetics: Ethics, Law and Policy. 4th ed. (recommended); Furrow et al. Bioethics: Health Care Law and Ethics. 7th ed. (recommended)	\$199.00; \$157.00
TECH 565	Biomedical Business Development for Scientists	Th	9/13/2018	12/13/2018	5:30 PM	7:30 PM	\$336.00	Salgaller. Biotechnology Entrepreneurship: From Science to Solutions. 1st ed. (rec.)	\$94.00
TECH 575	Business Finance and Accounting Principles for Scientists	W	9/5/2018	12/12/2018	6:00 PM	8:00 PM	\$336.00	Label WA. Accounting for Non-Accountants: The Fast and Easy Way to Learn the Basics. 3rd ed. (required)	\$16.99
TECH 583	Patent Research for Non-Legal Practitioners	W	9/12/2018	12/12/2018	6:00 PM	8:00 PM	\$336.00	no textbook	
TECH 588	FDA Regulatory Strategy in Medical Product Development	M	9/10/2018	12/10/2018	5:30 PM	7:30 PM	\$336.00	no textbook	
TECH 607	Capstone Course in Technology Transfer	T	9/11/2018	12/11/2018	5:30 PM	8:30 PM	\$504.00	no textbook	

Early or Late Start Date