

## FAES GRADUATE SCHOOL COURSE SCHEDULE FOR SPRING 2019

Code	Course Name	Day	Class Start	Class End	Start Time	End Time	Tuition	Books (Required or Recommended)	Book Fee
<b>BIOCHEMISTRY, CHEMISTRY, PHARMACOLOGY, AND TOXICOLOGY</b>									
BIOC101	Biochemistry in Health and Diseases	W	2/6/2019	5/15/2019	6:00 PM	8:00 PM	\$336.00	Liebman MA. Mark's Essential Medical Biochemistry, 2nd ed. (recommended)	\$78.99
BIOC302	Biochemistry II	M	2/4/2019	5/20/2019	5:15 PM	8:15 PM	\$504.00	Nelson DL. Lehninger Principles of Biochemistry. 7th ed. (required)	\$285.00
BIOC505	Emerging Trends in Membrane Biology: Advanced Cell Trafficking	<b>Canceled</b>							
BIOC532	Biological Importance of Modifications in DNA and Chromatin	T	2/5/2019	5/14/2019	5:30 PM	7:30 PM	\$336.00	no textbook	
CHEM102	General Chemistry II	Th	2/7/2019	5/16/2019	5:00 PM	8:00 PM	\$504.00	Jespersen ND. Chemistry: The Molecular Nature of Matter 7th ed. (required)	\$287.95
CHEM212	Organic Chemistry II	M	2/4/2019	5/20/2019	5:00 PM	8:00 PM	\$504.00	Klein D. Organic Chemistry. 2nd ed. (required)	\$59.00
CHEM327	The Art of Drug Design and Discovery - <b>Frederick</b>	W	2/6/2019	5/15/2019	5:30 PM	7:30 PM	\$336.00	Silverman R. The Organic Chemistry of Drug Design and Drug Action. 3rd ed. (required)	\$99.95
PHAR400	Pharmacology	W	2/6/2019	5/15/2019	5:30 PM	8:30 PM	\$504.00	Golan DE. Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy. 4th ed. (recommended)	\$92.99
PHAR500	Principles of Clinical Pharmacology - <b>ONLINE</b>	<b>Online</b>							
PHYS333	Principles of Medical Imaging (10 weeks)	Th	2/14/2019	4/18/2019	5:00 PM	8:00 PM	\$336.00	Bushberg et al. The Essential Physics of Medical Imaging. 3rd ed. (recommended) Cho et al. Foundations of Medical Imaging. 1st ed. (recommended)	\$224.99 \$235.00
<b>BIOINFORMATICS AND DATA SCIENCE</b>									
BIOF309	Introduction to Python	T	2/5/2019	5/14/2019	5:30 PM	7:30 PM	\$336.00	Guido S. et al. Introduction to Machine Learning with Python: A Guide for Data Scientists, 4th ed. (recommended) McKinney W. Python for Data Analysis: Data Wrangling with Pandas, NumPy, and Ipython. 2nd ed. (recommended)	\$49.99 \$50.00
BIOF395	Introduction to Text Mining - <b>NEW</b>	<b>Canceled</b>							
BIOF399	Deep Learning for Healthcare Image Analysis - <b>NEW</b>	M	2/4/2019	5/20/2019	5:00 PM	7:00 PM	\$336.00	Goodfellow I. Deep Learning, 1st ed. (recommended)	\$80.00
BIOF439	Data Visualization with R (7 weeks) - <b>NEW</b>	W	4/3/2019	5/15/2019	5:30 PM	8:00 PM	\$168.00	no textbook	
BIOF450	Bioinformatics, Computational Biology, and Evolutionary Genomics	M	2/4/2019	5/20/2019	5:30 PM	8:30 PM	\$504.00	Page R. Molecular Evolution. A Phylogenetic Approach, 1998 (recommended) Felsenstein J. Inferring Phylogenies, 2004 (recommended)	\$133.00 \$118.95
BIOF475	Introduction to New Technologies in Data Science	<b>Canceled</b>							
BIOF509	Applied Machine Learning	Th	2/7/2019	5/16/2019	5:00 PM	7:00 PM	\$336.00	no textbook	
BIOF521	Bioinformatics for Analysis of Data Generated by Next Generation Sequencing	T	2/5/2019	5/14/2019	5:30 PM	8:30 PM	\$504.00	no textbook	
BIOF529	Super R with Shiny!	Th	2/7/2019	5/16/2019	5:30 PM	7:30 PM	\$336.00	Beeley C. Web Application Development with R Using Shiny. 2nd ed. (recommended)	\$52.50
MATH128	Elementary Calculus II	<b>Canceled</b>							
<b>BIOLOGY AND GENETICS</b>									
BIOL102	Introduction to Genetics	Th	2/7/2019	5/16/2019	6:00 PM	8:00 PM	\$336.00	Klug WS. Essentials of Genetics. 9th ed. (required)	\$164.00
BIOL254	Non-Coding RNAs (miRNAs, lncRNAs, and circRNAs) and Exosomes: Biology and Diseases (8 weeks)	M	2/4/2019	4/1/2019	5:30 PM	7:30 PM	\$168.00	no textbook	
BIOL332	Introduction to Nanomedicine (8 weeks)	<b>Canceled</b>							
BIOL342	Post-Translational Modifications of Proteins (8 weeks)	M	3/25/2019	5/20/2019	5:30 PM	7:30 PM	\$168.00	no textbook	
BIOL385	The Biology of Aging	T	2/5/2019	5/14/2019	5:15 PM	7:15 PM	\$336.00	no textbook	
GENE500	Introduction to Medical Genetics II	T	2/5/2019	5/14/2019	5:30 PM	7:30 PM	\$336.00	no textbook	
GENE510	Genetic Counseling: Professional Topics Seminar	F	1/25/2019	5/17/2019	1:30 PM	3:30 PM	\$672.00	no textbook	
GENE514	Current Concepts in Clinical Molecular Genetics and Molecular Diagnostics	Th	2/7/2019	5/16/2019	5:30 PM	6:30 PM	\$168.00	no textbook	
GENE644	Review of Medical Genetics	W	2/6/2019	5/15/2019	5:30 PM	7:30 PM	\$672.00	no textbook	
<b>IMMUNOLOGY AND MICROBIOLOGY</b>									
IMMU325	The Human Microbiome: New Concepts in Health and Disease (7 weeks)	T	3/19/2019	4/30/2019	5:00 PM	7:00PM	\$168.00	no textbook	
IMMU369	Epidemics, Vaccines, and Prevention (7 weeks) - <b>NEW</b>	M	2/4/2019	3/25/2019	5:00 PM	7:30 PM	\$168.00	no textbook	
IMMU522	Molecular and Cellular Mechanisms of Immunity II	W	2/6/2019	5/15/2019	5:30 PM	7:30 PM	\$336.00	no textbook	
MICR418	Emerging Infectious Diseases	W	2/6/2019	5/15/2019	5:30 PM	8:30 PM	\$504.00	Contact instructor at <a href="mailto:emerging_infectious_diseases@verizon.net">emerging_infectious_diseases@verizon.net</a> for book information.	approx. \$200
MICR432	Human Virology	M	2/4/2019	5/20/2019	6:00 PM	8:00 PM	\$336.00	Flint SJ et al. Title: Principles of Virology. Vol 1&2. (recommended)	\$180.00
<b>LANGUAGES AND GENERAL STUDIES</b>									
ENGL108	Fundamental English Conversation II	M	2/4/2019	5/13/2019	4:15 PM	6:45 PM	\$480.00	Saslow & Ascher. Top Notch 3. 3rd ed. (required)	\$39.50
ENGL207	Intermediate English Conversation II	M	2/4/2019	5/13/2019	6:50 PM	9:20 PM	\$480.00	Saslow & Ascher. Summit 1. 3rd ed. (required)	\$54.75
ENGL306	Advanced English Written Grammar II	T	2/5/2019	5/14/2019	4:15 PM	6:45 PM	\$480.00	Maurer J. Focus on Grammar 5. 5th ed. (required)	\$58.75
ENGL308	Practice Your American English Pronunciation	W	2/6/2019	4/10/2019	5:00 PM	7:30 PM	\$320.00	Grant L. Well Said: Pronunciation for Clear Communication. 4th ed. (required)	\$68.95
ENGL355	Advanced English Conversation: Language, Culture, and Medicine (10 weeks) - <b>NEW</b>	T & Th	2/5/2019	4/11/2019	4:00 PM	5:30 PM	\$480.00	no textbook	
ENGL375	Lunchtime Professional English Series: English for Better Workplace Communication (10 weeks) - <b>NEW</b>	T & Th	2/5/2019	4/11/2019	1:00 PM	2:30 PM	\$480.00	no textbook	
GENL099	Argentine Tango 201: Learn and Dance! (7 weeks)	M	3/4/2019	4/15/2019	5:45 PM	7:15 PM	\$160.00	no textbook	
GENL195	Mindfulness and Stress Reduction (8 weeks)	F	4/5/2019	5/31/2019	4:00 PM	6:30 PM	\$320.00	Ameli R. 25 Lessons In Mindfulness: Now Time for Healthy Living (required)	\$19.95

GENL319	MCAT Review and Test Preparation (16 weeks)	M & W	2/4/2019	5/22/2019	5:30 PM	7:30 PM	\$640.00	Princeton Review. MCAT Subject Review. 2nd ed. (recommended)	\$215.00
GENL322-1-O	GRE Review (7 weeks) - <b>ONLINE</b>	T	2/5/2019	3/26/2019		<b>Online</b>	\$160.00	ETS. Official GRE Super Power Pack. 2nd ed. (required)	\$72.00
GENL322-2-O	GRE Review (7 weeks) - <b>ONLINE</b>	T	3/26/2019	5/14/2019		<b>Online</b>	\$160.00	ETS. Official GRE Super Power Pack. 2nd ed. (required)	\$72.00
GENL355	The Poetry of Science, the Science of Poetry (8 weeks) - <b>NEW</b>	Th	2/28/2019	4/18/2019	6:00 PM	8:00 PM	\$160.00	Williams M. Patterns of Poetry. (required) Finch et al. Villanelles. 1st ed. (recommended)	\$20.95 \$14.95
GENL505	The Forms and Functions of Science Communication (7 weeks) - <b>NEW</b>			<b>Canceled</b>					
GENL511	Fundamentals of Teaching - Theory and Practice			<b>Canceled</b>					
SPAN102	Spanish for Beginners II	W	2/6/2019	5/15/2019	5:00 PM	8:00 PM	\$480.00	Dorwick T. Puntos de Partida, 10th ed. (required)	\$200.00
SPAN208	Spanish for Health Care Providers	T	2/5/2019	5/14/2019	5:15 PM	8:15 PM	\$480.00	Rios J. McGraw-Hill's Complete Medical Spanish. 3rd ed. (required)	\$20.00
<b>MEDICINE AND PHYSIOLOGY</b>									
MEDI234	Precision Medicine (8 weeks)	W	3/13/2019	5/1/2019	5:30 PM	7:30 PM	\$168.00	no textbook	
MEDI318	Human Physiology II	W	2/6/2019	5/15/2019	5:00 PM	7:00 PM	\$336.00	Koeppen BM. Berne and Levy Physiology, 7th ed. (required)	\$119.99
MEDI335	Pathophysiology of Common Gastrointestinal and Metabolic - <b>NEW</b>	Th	2/7/2019	5/16/2019	5:00 PM	7:00 PM	\$336.00	no textbook	
MEDI339	Introduction to Cancer Biology	Th	2/7/2019	5/16/2019	5:30 PM	7:30 PM	\$336.00	Weinberg RA. The Biology of Cancer. 2nd ed. (recommended)	\$209.00
MEDI345	Human Anatomy	T	2/5/2019	5/14/2019	6:30 PM	8:30 PM	\$336.00	Moore KL. Clinically Oriented Anatomy. 7th ed. (recommended)	\$99.99
MEDI507	Inborn Errors of Metabolism	M	2/4/2019	5/20/2019	5:30 PM	8:30 PM	\$504.00	Nyhan et al. Atlas of Inherited Metabolic Disease, 3rd ed. (recommended)	\$239.00
MEDI510	Advances in Metastasis Research (7 weeks) - <b>NEW</b>	T	3/5/2019	4/16/2019	5:30 PM	7:00 PM	\$168.00	no textbook	
<b>PUBLIC HEALTH</b>									
PBHL501	Environmental Health Sciences	W	2/6/2019	5/15/2019	5:30 PM	8:30 PM	\$504.00	Frumkin H. Environmental Health: From Global to Local, 3rd ed. (required)	\$110.00
PBHL510	Alcohol Across the Lifespan - <b>NEW</b>	W	2/6/2019	5/15/2019	6:00 PM	8:00 PM	\$336.00	no textbook	
PBHL512	Social and Behavioral Sciences	T	2/5/2019	5/14/2019	5:00 PM	8:00 PM	\$504.00	no textbook	
PBHL518	Introduction to Program Evaluation for Planning, Improvement, and Measurement - <b>ONLINE</b>			<b>Online</b>			\$504.00	no textbook	
PBHL521	Cancer Screening (8 weeks)	W	2/20/2019	4/10/2019	3:30 PM	5:30 PM	\$168.00	no textbook	
PBHL527	Healthcare Management - <b>NEW</b>	Th	2/7/2019	5/16/2019	6:00 PM	9:00 PM	\$504.00	Ledlow et al. Leadership for Health Professionals: Theory, Skills and Applications, 3rd ed. (required)	\$111.95
PBHL537	Health Policy Analysis Using SAS and STATA - <b>NEW</b>	M	2/4/2019	5/20/2019	5:15 PM	8:15 PM	\$504.00	Juul S. An Introduction to Stata for Health Researchers, 4th ed. (recommended)	\$87.95
PBHL607	Capstone Project in Public Health			<b>Contact Instructor</b>			\$504.00	no textbook	
STAT200	Experimental Statistics II	M	2/4/2019	5/20/2019	5:30 PM	8:30 PM	\$504.00	no textbook	
STAT325-O	Epidemiologic Research Methods - <b>ONLINE</b>			<b>Online</b>			\$504.00	Kleinbaum et al. Epidemiologic Research: Principles and Quantitative Methods. 1st ed. (required)	\$199.00
STAT430	Advanced SAS (10 weeks) - <b>NEW</b>	Th	2/7/2019	4/11/2019	6:00 PM	8:30 PM	\$336.00	no textbook	
STAT500-II	Statistics for Biomedical Scientists II	T	2/5/2019	5/14/2019	5:00 PM	8:00 PM	\$504.00	Rosner & Bernard. Fundamentals of Biostatistics. 8th ed. (required)	\$199.95
STAT500 I-O	Statistics for Biomedical Scientists I - <b>ONLINE</b>			<b>Online</b>			\$504.00	Hirsch RP. Introduction to Biostatistical Applications in Health Research with Microsoft Office Excel. Book <u>and</u> Accompanying Workbook. 1st ed. (required)	\$159.95
<b>TECHNOLOGY TRANSFER, BUSINESS, AND INDUSTRY</b>									
TECH508	Regulatory Affairs and FDA Regulation	M	2/4/2019	5/20/2019	6:00 PM	8:00 PM	\$336.00	no textbook	
TECH513	Introduction to Technology Transfer	Th	2/7/2019	5/16/2019	5:30 PM	7:30 PM	\$336.00	no textbook	
TECH528	Preclinical Evaluation of Novel Drugs and Beyond (10 weeks)	Th	2/7/2019	4/11/2019	5:30 PM	8:00 PM	\$336.00	no textbook	
TECH565	Biomedical Business Development for Scientists	W	2/6/2019	5/15/2019	5:30 PM	7:30 PM	\$336.00	Salgaller. Biotechnology Entrepreneurship: From Science to Solutions. 2010. (recommended); out of print	\$94.00
TECH566	Building a Biotech Company: Business Leadership and Management Strategies	T	2/5/2019	5/14/2019	5:30 PM	7:30 PM	\$336.00	Friedman Y. Building Biotechnology: Starting, Managing and Understanding Biotechnology Companies. 4th ed. (recommended)	\$91.95
TECH572	Marketing Strategies for Scientific Organizations	W	2/6/2019	5/15/2019	6:00 PM	8:00 PM	\$336.00	no textbook	
TECH582	Intellectual Property and Patent Prosecution for Scientists	M	2/4/2019	5/20/2019	5:30 PM	7:30 PM	\$336.00	Pressman D. Patent It Yourself. 19th ed. (required)	\$49.99
TECH584	Translational Medical Product Development			<b>Canceled</b>					
TECH586	International Health Science, Technology and Innovation			<b>Canceled</b>					
TECH607	Capstone Course in Technology Transfer	T	2/5/2019	5/14/2019	5:30 PM	8:30 PM	\$504.00	no textbook	

Early or Late Start Date