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Frequent/Recommended MB & BC Electives

Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
18943	CHEM 7150	2.0	Bioinorganic Chemistry	Valerie Pierre	TuTh	10:45AM- 12:05PM	HEB 2002
Seco	nd Half	Biophys nucleic a	rse provides a broad overview of met- ics, and related disciplines. It focuses acids, metalloproteins as elaborated in model complexes and biochemical st	on our current understanding of organic complexes, physical met	the role of metals in thods used to study a	the structure and funct metal sites with empha	ion of proteins and sis on the synergism
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Dav	Time	Bldg/Room
19479	CHEM	2.0	Biophysical Chemistry	Jessica Swanson	MoWeFr	08:20AM-	TBBC 2429
	7450		1 0 0			09:25AM	
Firs	st Half		overed include: Basics of thermodyna kinetics and inhibition; kinetic isotopo				
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
10853	CHEM 7470	2.0	Nucleic Acid Chemistry	Ming Hammond	TuTh	09:10AM- 10:30AM	HEB 2010
Class# [4978	Catalog# CHEM 7580	<u>С.н.</u> 2.0	Course Title Advanced Topics in Biological Chemistry	Lead Instructor Cynthia Burrows	Day TuTh	Time 09:10AM- 10:30AM	Bldg/Room TBBC 4630
Firs	/ 380 st Half		rrse will explore Chemistry of the Origites and simple vesicles. Undergradua			s to generate amino acio	
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
10005	H GEN	1.5	Evolution &	Gabrielle Kardon &	TuTh	01:15PM-	EHSEB 2962
	6091		Development	Michael Shapiro		02:45PM	
Seco	nd Half	This cou research animals,	t MB Elective rrse will explore the molecular, develo in animal biology. Topics include reg molecular/developmental origin of di and discussions of current literature. S	ulatory networks and signaling p iverse body plans and appendage	bathways, modularit s, and genetics of sp	y, developmental const	raints, origin of
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
11500	H GEN 6092	2.0	Evolutionary Genetics and Genomics	Ellen Leffler	MoWeFr	09:30AM- 10:20AM	EHSEB 5100C
F	irst Half	Thi app	s course will cover the fundamentals or	in computational analysis aimed	l at students at all le	vels of experience. Lec	

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Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
6460	H GEN 6421	1.5	Genes & Complex Disease	Lynn Jorde	TuTh	02:00 PM - 3:00 PM	EHSEB 2600
Fin Class# 4619	rst Half Catalog# H GEN 6481	Course include extended locus an markers	nt MB Elective work addresses issues relevant to the identification advantages and disadvantages of isolates versus d families. Methods taught include traditional era d allelicheterogeneity, phenotypic heterogeneity	large population, utiliz se-control association r gene-gene and gene-e Lead Instructor Charles	ation of affected si methods and famil	ibling pairs, discordan y based methods. Oth	t sibling pairs and er subjects include polymorphic Bldg/Room EHSEB
Fi	0481 rst Half	Frequer	nt BC & MB Elective	Murtaugh		11:35AM	4100C
		the beha emphasi	urse will examine the mechanisms of a variety o wor of cells within developing and adult tissues ize experimental techniques and analyses.	. The material will incl		liscussion of the prime	ary literature, and
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
9605	MDCRC 6530	2.0	Utilization of Animal Models in the Development of Clinical	Anthea Letsou	Tu	10:00 AM- 11:30AM	EHSEB 4100C
	0330		Research Projects	Letsou		11.30AW	41000
		dissect t methods fish and	v possible to precisely modify any DNA sequence he genetic basis of human disease. Deletion of g s of gene inactivation (anti-sense constructs, inho C. elegans will also be covered. Grad Core Course Requirement	enes using homologou	s recombination w	ill be covered extensiv	vely as will other
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
18574	PATH 6410	1.5	Molecular Virology	Jarrod Johnson	MoWe	03:00PM- 04:30PM	EHSEB 3420
	rst Half	Basic kr replicati provide	at MB Elective nowledge of molecular biology is required. The on, gene expression, assembly of progeny virion both a general introduction to the diversity of vir	ns, interaction with the rus lifestyles and a deta	host cell, and mole ailed analysis of se	ecular epidemiology. T everal of these strategie	The course will es.
Class#	Catalog#	С.Н.	Course Title	Lead Instructor	Day T. T.	Time	Bldg/Room
18575	PATH 7320	1.5	Topics in Immunology	Matthew L Bettini	TuTh	01:00PM- 02:30PM	EEJMRB 1420
Fi	rst Half	This cou to infect	at MB Elective arse will address core topics in immunology incl ion, vaccines, autoimmunity and cancer immun- ss is specifically geared toward 1st year MB stu	ology and immunothera		s of innate and adaptiv	e immune responses

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Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
8583	PHCEU	3.0	Fundamentals of	James Herron, Daniel	WeFr	10:30AM-	EHSEB
	7011		Pharmacokinetics	Malone, & Shawn Owen		12:00PM	4100B
Full Semester Frequent BC Elective; Counts as 2 electives This course will review fundamental aspects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis on understanding concepts for compartmental spects of pharmacokinetics with an emphasis of pharmacokinetics w							
		compart how the	mental modeling, physiologic modeling se techniques can be used to optimize dr <i>isite: PHCEU 7010, or Special Permiss</i> .	, and modeling of targeted drug deliv rug delivery.			
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
19182	РН ТХ	2.0	Essentials of	Farzana Alam &	TuTh	12:30 PM –	TBA
	7113		Pharmacology	Martin Golkowski		2:30 PM	
Fir	st Half	role of s (GPCRs principle metabol the cour omics so	urse will introduce graduate students to t mall molecule drug structures, ligand bi), and protein kinases, and others, in rela- es of pharmacokinetics including physio ism and excretion of drugs, current com- se will discuss cutting edge aspects of p- ciences and novel, up-and-coming small ACs)and target classes like transcription	nding kinetics, and receptor physiolo ation to biological (side)effects of dr chemical factors and individual vari putational tools to calculate pharmace harmacology research and pharmace molecule drug classes like molecula	ogy, including ugs. Furthern ations that aff okinetic para utical industr r glues and p	g ion channels, G-proteir nore, the course will intre- fect the absorption, distri meters, and pharmacoge y applications in precisio roteolysis-targeting chim	a coupled receptors oduce the basic bution, nomics. Finally, on medicine, the heras

Additional Electives

Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room			
19186	BIO C	1.0	Peptide and Protein	Michael Kay	TBA	ТВА	TBA			
	7100		Design	v						
Seco	nd Half	Semina	r: Student and faculty discussion	on of advanced-level topics	s not covered in fo	rmal courses.				
				1			I			
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room			
10489	BIOL	3.0	Gene Expression	Michael Werner	MoWeFr	10:45AM-11:35AM	ASB 210			
	5120									
Full S	Semester	Counts	as 2 electives							
			11 1 1 1 1 1 1 1 1			1' (' 11 1 (' CDATA 1	, ·			
						calization, and degradation of RNA and				
		1	0 1		and disease. Read	ing from the current research literature.	It is recommended			
		that BIG	DL 2030 is completed prior to t	taking this course.						
		Note _	Note – Tuition Benefit does NOT pay for differential tuition charges. Please be sure to check tuition bills and coverage.							
		11010 -	tutton Denejti udes 1101 pay	jor uggerennur tunton en	urges. I leuse de s	ure to check tuttion bitts and coverage.	<u>.</u>			
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room			
6644	BIOL	3.0	Cell Structure	Nick Vierra	TuTh	10:45AM-12:05PM	AEB 320			
	5210		Function							
Full S	Semester	Counts	as 2 electives							
			rse will address advanced topi			relationships in the cell. Among the top				
		endocy	rse will address advanced topi osis and secretion, nuclear org	anization, they cytoskeleto	n, the mitochondr	ia and phase separation. We will also to	uch on cutting edge			
		endocy techniq	urse will address advanced topi osis and secretion, nuclear org ues, ranging from microscopy	anization, they cytoskeleto to 'omics. A central compo	n, the mitochondr		uch on cutting edge			
		endocy techniq	rse will address advanced topi osis and secretion, nuclear org	anization, they cytoskeleto to 'omics. A central compo	n, the mitochondr	ia and phase separation. We will also to	uch on cutting edge			
		endocyt techniq giving a	urse will address advanced topi osis and secretion, nuclear org ues, ranging from microscopy in insight into the inner workin	anization, they cytoskeleto to 'omics. A central compo lgs of modern biology.	n, the mitochondr nent of the course	ia and phase separation. We will also to is reading and discussion of primary re	uch on cutting edge search papers,			
		endocyt techniq giving a	urse will address advanced topi osis and secretion, nuclear org ues, ranging from microscopy in insight into the inner workin	anization, they cytoskeleto to 'omics. A central compo lgs of modern biology.	n, the mitochondr nent of the course	ia and phase separation. We will also to	uch on cutting edge search papers,			
Class#	Catalog#	endocyt techniq giving a	urse will address advanced topi osis and secretion, nuclear org ues, ranging from microscopy in insight into the inner workin	anization, they cytoskeleto to 'omics. A central compo lgs of modern biology.	n, the mitochondr nent of the course	ia and phase separation. We will also to is reading and discussion of primary re	uch on cutting edge search papers,			
Class# 12883	Catalog# BIOL	endocyt techniq giving a <u>Note –</u>	urse will address advanced topi osis and secretion, nuclear org ues, ranging from microscopy in in insight into the inner workin <i>Tuition Benefit does NOT pay</i> Course Title	anization, they cytoskeleto to 'omics. A central compo- lgs of modern biology. <i>for differential tuition ch</i> Lead Instructor	n, the mitochondr nent of the course arges. Please be s	ia and phase separation. We will also to is reading and discussion of primary re <i>ure to check tuition bills and coverage</i> .	uch on cutting edge search papers,			
	BIOL	endocyt techniq giving a <u>Note –</u> C.H.	arse will address advanced topi osis and secretion, nuclear org ues, ranging from microscopy in insight into the inner workin <i>Tuition Benefit does NOT pay</i> Course Title Prokaryotic	anization, they cytoskeleto to 'omics. A central compo lgs of modern biology. <i>for differential tuition ch</i>	n, the mitochondr nent of the course arges. Please be s Day	ia and phase separation. We will also to is reading and discussion of primary re sure to check tuition bills and coverage. Time 12:55PM-01:45PM & Lab	uch on cutting edge search papers, Bldg/Room JTB 110 &			
	0	endocyt techniq giving a <u>Note –</u> C.H.	urse will address advanced topi osis and secretion, nuclear org ues, ranging from microscopy in in insight into the inner workin <i>Tuition Benefit does NOT pay</i> Course Title	anization, they cytoskeleto to 'omics. A central compo- lgs of modern biology. <i>for differential tuition ch</i> Lead Instructor	n, the mitochondr nent of the course arges. Please be s Day	ia and phase separation. We will also to is reading and discussion of primary re <i>ure to check tuition bills and coverage</i> .	uch on cutting edge search papers, Bldg/Room			

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Full Semester		register progran	ing for the pertinent lab and/o n. Students may request to opt	or discussion section. The co t out here: https://portal.verb	ourse fee covers di ba.io/utah/login	be automatically registered for this lect igital course materials through the Inclu	isive Access	
			ended that BIOL 2020 and B			f modern genetics using bacteria and th ourse.	eir viruses. It is	
		<u>Note –</u>	Tuition Benefit does NOT pa	y for differential tuition ch	arges. Please be s	sure to check tuition bills and coverage	<u>e.</u>	
Class#	Catalog#	C.H. Course Title Lead Instructor Day Time Bldg/R						
19115	BIOL	3.0	Advanced Euk.	Nitin Phadnis	MoWeFr	11:50AM-01:45PM	JTB 230	
	5920		Genetics					
Firs	st Half					erstanding of the experimental basis of		
						on; DNA mutation and repair: gene exp d space; gene interactions and pathway		
		andrupti			unit unit unit			
		<u>Note – 1</u>	Tuition Benefit does NOT pa	y for differential tuition ch	arges. Please be s	sure to check tuition bills and coverage	<u>e.</u>	
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room	
14696	BIOL	3.0	Cell Biol &	Wayne Davis	TuThFr	Th/12:25PM-01:45PM	HEB 2002	
	5960		Microscopy			TuFr/12:55PM-03:55PM	BIOL 180	
Full S	Semester	Topics	of special interest taught when	n justified by student and fa	culty interest. Cor	ntent varies from year to year.		
		Note	Tuition Panafit does NOT no	n for differential tuition ab	anaas Dlaasa ha	sure to check tuition bills and coverage	a	
		<u>noie –</u>	<u>I ullon Benefit abes NOI pa</u>	y for afferential tuttion ch	arges. Flease de s	sure to check tuttion buis and coverage	<u>e.</u>	
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room	
Class# 10490	BIOL	С.н. 3.0	Course Title Adv Stat Model	Frederick Adler	Day MoWe	Time 02:00PM-03:30PM	Bldg/Room JTB 320	
10490	BIOL 6500	3.0	Adv Stat Model Biolgst					
10490	BIOL	3.0	Adv Stat Model	Frederick Adler				
10490	BIOL 6500	3.0 Counts This co	Adv Stat Model Biolgst as 2 electives	Frederick Adler & David Bowling	MoWe	02:00PM-03:30PM	JTB 320	
10490 Full S Class#	BIOL 6500	3.0 Counts This correal pra	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title	Frederick Adler & David Bowling	MoWe perhaps rusty back sed on the R progr Day	02:00PM-03:30PM kground in mathematics and statistics w ramming language.	JTB 320 /ho wish to become Bldg/Room	
10490 Full S	BIOL 6500 Semester Catalog# BIOL	3.0 <i>Counts</i> This correal pra	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title Biological	Frederick Adler & David Bowling	MoWe perhaps rusty back sed on the R progr	02:00PM-03:30PM kground in mathematics and statistics w ramming language.	JTB 320	
10490 Full S Class# 7927	BIOL 6500 Semester Catalog# BIOL 6530	3.0 Counts This correal pra C.H. 3.0	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title Biological Chemistry	Frederick Adler & David Bowling ce graduate students with a p a statistics. The course is bas Lead Instructor	MoWe perhaps rusty back sed on the R progr Day	02:00PM-03:30PM kground in mathematics and statistics w ramming language.	JTB 320 /ho wish to become Bldg/Room	
10490 Full S Class# 7927	BIOL 6500 Semester Catalog# BIOL	3.0 Counts This correal pra C.H. 3.0	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title Biological	Frederick Adler & David Bowling ce graduate students with a particular statistics. The course is base Lead Instructor David Blair &	MoWe perhaps rusty back sed on the R progr Day	02:00PM-03:30PM kground in mathematics and statistics w ramming language.	JTB 320 /ho wish to become Bldg/Room	
10490 Full S Class# 7927	BIOL 6500 Semester Catalog# BIOL 6530	3.0 Counts This co real pra C.H. 3.0 Counts	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title Biological Chemistry	Frederick Adler & David Bowling ce graduate students with a p a statistics. The course is bas Lead Instructor David Blair & Martin Horvath	MoWe perhaps rusty back sed on the R progr Day TuTh	02:00PM-03:30PM kground in mathematics and statistics w ramming language.	JTB 320 /ho wish to become Bldg/Room	
10490 Full S Class# 7927	BIOL 6500 Semester Catalog# BIOL 6530	3.0 Counts This co real pra C.H. 3.0 Counts	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title Biological Chemistry as 2 electives	Frederick Adler & David Bowling ce graduate students with a p a statistics. The course is bas Lead Instructor David Blair & Martin Horvath	MoWe perhaps rusty back sed on the R progr Day TuTh	02:00PM-03:30PM kground in mathematics and statistics w ramming language.	JTB 320 /ho wish to become Bldg/Room	
10490 Full S Class# 7927 Full S	BIOL 6500 Semester BIOL 6530 Semester	3.0 Counts This correal pra C.H. 3.0 Counts Structur	Adv Stat Model Biolgst as 2 electives urse is designed for life scienc ctitioners of the art of modern Course Title Biological Chemistry as 2 electives re and function of biomoleculo	Frederick Adler & David Bowling ce graduate students with a p a statistics. The course is bas Lead Instructor David Blair & Martin Horvath es, metabolism, and regulati	MoWe perhaps rusty back sed on the R progr Day TuTh	02:00PM-03:30PM kground in mathematics and statistics w ramming language. Time 10:45AM-12:05PM	JTB 320 /ho wish to become Bldg/Room HEB 2008	
10490 Full S Class# 7927 Full S Class# 4850	BIOL 6500 Semester BIOL 6530 Semester Catalog# BMI 6105	3.0 Counts This correal pra C.H. 3.0 Counts Structur C.H. 3.0	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title Biological Chemistry as 2 electives re and function of biomolecule Course Title Stats for Biomed Info	Frederick Adler & David Bowling ce graduate students with a pastatistics. The course is bas Lead Instructor David Blair & Martin Horvath es, metabolism, and regulati Lead Instructor Greg Stoddard	MoWe perhaps rusty back sed on the R progr Day TuTh ion. Day Online	02:00PM-03:30PM kground in mathematics and statistics waramming language. Time 10:45AM-12:05PM	JTB 320 /ho wish to become Bldg/Room HEB 2008 Bldg/Room	
10490 Full S Class# 7927 Full S Class# 4850	BIOL 6500 Semester BIOL 6530 Semester Catalog# BMI	3.0 Counts This correal pra C.H. 3.0 Counts Structur C.H. 3.0 This cla develop rather the taught. students	Adv Stat Model Biolgst as 2 electives urse is designed for life science ctitioners of the art of modern Course Title Biological Chemistry as 2 electives re and function of biomolecule Course Title Stats for Biomed Info ing and validating prognostic ing and validating prognostic ing and formulas. Stati Epidemiology principles, such 3.)	Frederick Adler & David Bowling ce graduate students with a p a statistics. The course is base Lead Instructor David Blair & Martin Horvath es, metabolism, and regulati Lead Instructor Greg Stoddard tistical methods, from basic and diagnostic tests. The er istical programming, compute h as confounding, bias, and the	MoWe perhaps rusty back sed on the R progr Day TuTh ion. Day Online statistics to advan nphasis is on app ter graphics, Mon causation are also	02:00PM-03:30PM kground in mathematics and statistics w ramming language. Time 10:45AM-12:05PM	JTB 320 tho wish to become Bldg/Room HEB 2008 Bldg/Room easurements, and al software Stata, allation in Stata is informatics graduate	

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12183	BMI	3.0	Deep Learning in BioMed	Abdulmalek Al-	TuTh	05:00PM-	TBA
	6114			Gahmi		06:30PM	
Full	Semester	and app fundam implem will leas analysis learning	urse is an applied introduction to deep learn lication of modern neural networks. In that entals that presents a start point for using n enting the main mathematics, statistics, and rn how deep learning algorithms extract lay s, and classification machine learning tasks g architectures for mainly biomedicine appl <i>Tuition Benefit does NOT pay for different</i>	t vein, the course will provide stu nore advanced techniques in thei d machine learning principles that yered high-level representations of . Hands-on activities will provide lications.	idents with a wor r future careers. T t will be required of data in order to e students with th	king knowledge of do The course will start b during the course. To optimize feature lea e experience of imple	eep learning by reviewing and 'hen, the students rning, cluster ementing deep
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
12077	CHEM 7020	2.0	Intro Spectroscopy I	Michael Morse	MoWeFr	11:00AM- 12:05PM	HEB 2010
Fir	rst Half	in mode rotation	urse provides an introduction into the appli ern spectroscopy. Students will learn to der al transitions in atomic and molecular syste rs with a solid background in quantum med	ive selection rules and properties ems. This course covers topics us	of electronic, vit	orational and	
Class#	Catalog#	С.Н.	Course Title	Lead Instructor	Day	Time	Bldg/Room
8942	CHEM	2.0	Chemical Dynamics	Peter	MoWeFr	08:20AM-	HEB 2002
	7080		·	Armentrout		09:25AM	
Class# 0503	Catalog# CHEM	С.Н. 2.0	Course Title Solid-State Chemistry	Lead Instructor Luisa Whittaker-	Day MoWeFr	Time 09:35AM-	Bldg/Room HEB 2006
	7130			Brooks		10:40AM	
Fir Class#	rst Half Catalog#	fundam	urse is intended for graduate students in Ch ental aspects of solid-state materials and th erization, structure and properties with resp Course Title	eir properties. A broad overview			
10820	CHEM	2.0	Organometallic Chem I	Thomas	TuTh	09:10AM-	HEB 2010
	7160		- 8	Richmond	-	10:30AM	
	rst Half	Organo metal-c concept	urse is intended for graduate students in Ch metallic chemistry is defined by metal com arbon bonds. The course will introduce fun is to designing and applying catalytic chem	plexes performing chemical reac idamental concepts of both inorg ical reactions to target directed o	ctions might invol anic and organic rganic synthesis,	we intermediates con chemistry and the ap chemical biology, ar	ntaining transition plication of these ad material science
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
5032	CHEM 7210	2.0	Organic Synthesis II	Andrew Roberts	MoWeFr	11:00AM- 12:05PM	HEB 2010
Seco	ond Half	commo and hov	urse is largely focused on understanding str n reactions and named organic reactions wi v they are strategically applied. These discu edicinally relevant organic compounds.	ill also be studied as a means to u	inderstand function	onal group tolerance	and compatibility
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
7731	CHEM 7300	2.0	Polymers: Chemistry	Ilya Zharov	TuTh	10:45AM- 12:05PM	TBA
Fir	rst Half	characte in polyr	urse will cover the fundamentals of polyme erization, mechanisms of polymer formatio ner chemistry. Three lectures, one discussi- pare a presentation on a topic of current int	n, specific examples of polymer on per week for 7.5 weeks. Stude	structures, applic ents will be requir	ations of polymeric r	naterials, advance

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18940	CHEM	2.0	Molecular Simulations	Michael	TuTh	10:45AM-	HEB 2010
	7530			Gruenwald		12:05PM	
Seco	ond Half	microsco The purp simulati execute	ar simulations and modeling are playing an incr opic structure and interactions to macroscopic p pose of this course is to educate students in the ons. Through lectures, laboratory practice, revie and interpret molecular simulation experiments ry, molecular physics and molecular biology.	roperties that are key for the foundation and practice of o w of recent literature and a	e modeling and classical Molecul final laboratory	design of new materia ar Dynamics and Mo project, the students l	Is and processes. nte Carlo learn how to plan,
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
13006	NEUSC	4.0	Principles of Systems	Adam Douglass	TuThFr	10:45AM-	EHSEB
	6050 Semester		Neuroscience the most essential function of the brain is to get	& Jim Heys		12:05PM	3430
		learn ab ultimate	nent. Doing so requires often-enormous numbe out the principles that govern such activity with ly adapt to its environment. Our approach will u systems neuroscience literature, and the myriad	in neural circuits and how t use a combination of didact	hey shape an ani ic lectures and g	mal's ability to sense roup discussion that e	, learn, plan and mphasizes the
Class#	Catalog#	С.Н.	Course Title	Lead Instructor	Day	Time	Bldg/Room
2959	NUIP	1.0-	Selected Topics-	David Symons	MoWe	9:40AM-	EHSEB
	5850	3.0	Survey of Cardiovascular,	v		11:40AM	2938
			Muscle, Pulmonary Physiology				
Seco	ond Half		IP 6702- Survey of Cardiovascular, Muscle, Pu of major organ systems, their function, and integ		. Lectures, assign	ned reading, and team	-based instruction
			h subject matter experts delivering content of e			6,	
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
12666	PATH 7360	1.5	Advanced Immunology	Dean Tantin	TuTh	02:00PM- 03:30PM	EEJMRB 2420
Fir	st Half	original	n advanced lecture and seminar course addressi research articles, not a textbook. Students will b m participation and a research proposal based u	e expected to participate in	discussions. Cla	ass grade will be deter	
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
7275	PHCEU 6020	3.0	Biomaterials	Michael Yu	TuTh	10:45AM- 12:05PM	ТВА
Full	Semester	biomate	al, physical, and biological properties of synthet rials and their interaction with blood, soft, and h ance testing of materials in biomedical use.				
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
19191	PHTX	2.0	Advances in	Karen S. Wilcox	Th	1:30PM-	Skaggs
	7280		Neuropharmacology: Glial cells in health and disease			3:30PM	3924
Full	Semester	articles. leading	n goal of the course is to familiarize students will Students will read primary articles prior to class a student-run discussion. <i>isite: Cellular and Molecular Neuroscience or n</i>	s and actively engage in dis			
Class#	Catalog#	C.H.	Course Title	Lead Instructor	Day	Time	Bldg/Room
12320	PHTX 7690	2.0	Professional Skills Development	Kristen Keefe & Kyle Turner	W	3:00PM- 5:00PM	4100C HESB
Full	Semester	areas: to	ourse, participants will enhance their leadership echnical writing, communication styles and rhet d to equip trainees with the tools and skills nece	and communication abiliti orical devices, leadership d	evelopment, care		