#### Fall 2025 Graduate Electives

Note - This is not a full comprehensive list. Courses such as advanced journal clubs and departmental Research in Progress are not included.

Always check your department guidelines and with your department coordinator, thesis advisor, and the course instructor for permission and guidance.

Classroom assignments may change between the time you register and when classes begin. Please check your class schedule for the latest classroom location information before attending class.

Fall 2025 Class Schedule: https://class-schedule.app.utah.edu/main/1258/index.html

#### Fall 2025 Selectives (Please see pages 6-7)

All first year students will self-select two (2) selectives courses that match their research interest and/or explore the range of disciplines and research emphasis areas.

- All Selectives will be held during Second Half Semester
- Please note some classes overlap in days/times.
- Contact the Instructor or Department Coordinator to confirm if advanced students can enroll along with first year students and if a permission code is required
- Selectives will be 1.5-3 credits each

Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
19910	ANAT 7750	1.5	Developmental Neurobiology	Nikki Link	T, Th, F	10:45AM- 11:35AM	EHSEB 3515B
Second Hal	f Semester	Cellular	and molecular biology of nervous system development.				
Lecture		Meets W	ith NEUSC 7750 001				
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
11937	ANAT 7790	1.5	Microscopy & Imaging	Adam Douglass, Kristen Kwan	T, Th	9:00AM- 10:00AM	EHSEB 2948
Half Semest	ter		heory and practice of biological light microscopy, includ				al microscopy,
Lecture		digital ir	nage analysis and quantitation, and figure preparation. A	. class project uses data	from students' ov	vn research.	
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
19887	BIOL 5275	4.0	Microbial Diversity, Genomics and Evolution	Colin Dale	M, W	2:00PM-2:50PM	JTB 320
			amples from the environment and examines microbial di		C	al methods and bioin	formatic tools.
C1 #			tial tuition for 5000 level BIOL class that will not be cov	ered by Tuition Benefit.			
Class #	Catalog #	Cr Hrs	Course Title	ered by Tuition Benefit.	Day	Time	Bldg/Room
13075 Full Semest	BIOL 5510	3.0	·	Lead Instructor Michael D Shapiro	Day T, Th	10:45AM – 12:05PM	BEH S 114

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Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
13139	BIOL 6120	2.0	Computing with Python	Richard M Clark	F	2:00PM – 3:55PM	BIOL 150
Full Semester Lecture		biology. program overviev	rse is intended to provide an introduction to computer p The course is intended primarily for first year graduate ming experience is required. In addition to an introducti $\gamma$ of modern computing and the use of Unix-type operation in-class computing exercises, homework exercises and	students in the School o on to the Python langua ing systems (including N	f Biological Scie ge, the course inc AacOS and Linux	and highlighting appl nces, but others are w cludes a bit of history .). The course structure	velcome. No pric , a general re will include
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
10922	BIOL 7961	1.0	Intro to MCEB Research	-	M, Th	3:30PM-4:30PM (M) 9:30AM- 10:30AM (TH)	CSC 13 AEB 320
First Half Se	emester	Topics o	f special interest taught when justified by student and fa	culty interest. Content v	varies from year t	o year.	
Special Top	cs	Contact	Colin Dale (colin.dale@utah.edu) prior to adding it to	schedule for content pur	poses.		
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
15093	BIO C 7100	2.0	Advanced Methods Electron Microscopy	Peter Shen	TBA	TBA	TBA
First Half Se		Seminar	Student and faculty discussion of advanced-level topic	s not covered in formal	courses.		
Special Top	cs						
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
1634	CHEM 7040	2.0	Statistical Thermodynamics	Peter Armentrout	M, W, F	11:00AM – 12:05PM	HEB 2010
First Half Se Lecture		for chem	rse introduces the statistical machinery used to connect ists, physicists, biologists, and engineers.		-		_
Class #	Cutalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
14778	CHEM 7050	2.0	Classical Thermodynamics	Valeria Molinero	M, W, F	8:20AM – 9:25AM	HEB 2010
Second Half Lecture	? Semester	learn to	rse covers classic topics of thermodynamics, including derive and understand fundamental thermodynamic rela ons. The material covered in this course is useful for sc ynamics.	tions, equations, and for	mulae and explor	e their importance in	modern
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
1636	CHEM 7240	2.0	Physical Organic Chemistry	Jacob Lessard	T, Th	9:10AM - 10:30AM	HEB 2002
First Half Semester		binding. laws, kir	organic chemistry studies the approaches to decipherin The topics include stereochemistry, conformational ana tetic isotope effects, linear free energy relationships. <i>ith CHEM 5240 001</i>			d the principles that g	
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
1639	CHEM 7250	2.0	Organic Reaction Mechanisms	Ryan Looper	M, W, F	11:00AM – 12:05PM	HEB 2010
Second Half Lecture		combina trajector	xamines organic reaction mechanisms involving all fun tions of fundamental steps, orbital symmetry controlled y analysis and radical reactions. <i>ith CHEM 5250 001</i>			complex mechanism	

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Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
6062	CHEM 7460	2.0	Protein Chemistry	Aaron Puri	M, W, F	8:20AM- 09:25AM	JTB 120
First Half Semester		their stud chemistry	one half semester course which focuses on the mechani y. Subject matter includes enzyme mechanisms, chemi v. th CHEM 5460 001			tides and proteins an	
					I _	I	
Class # 13646	Catalog # CHEM 7640	Cr Hrs 2.0	Course Title Materials Chemistry for Alternative Energy	Lead Instructor Ming Lee Tang	Day M, W, F	Time 11:00AM – 12:05PM	Bldg/Room HEB 2002
Second Halj Lecture		materials conversio	se is designed to introduce you to the fundamentals of for: electrofuels, solar, fuel cells, batteries chemistry a on, or storage, as well as fundamental understanding of <i>th CHEM 5640 001</i>	nd engineering of electro	odes used for eac	y. Topic to be cover h type of energy pro	
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
12268	CHEM 7725	2.0	Mass Spectrometry	Gabe Nagy	M, W, F	8:20AM- 9:25AM	CSC 10-12
Second Half Lecture			half semester course will cover material related to the i de a discussion of mass spectrometry nomenclature, io			cations of mass spec	
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
10344	CHEM 7730	2.0	Electrochemistry I	Henry White	M, W, F	9:35AM - 10:40AM	PAB 103
First Half So Lecture	emester		se will provide an overview of the fundamental concep g chemical reactions at the electrode/electrolyte interfa		ience. The course	e is devoted to the ba	sic principles
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
18009	CHEM 7740	2.0	Electrochemistry II	Long Luo	M, W, F	9:35AM – 10:40AM	TBBC 2429
Second Half Lecture	Semester	technolog	se is designed to introduce you to electrochemical reac gies. Topics to be covered include: a variety of voltamn electrodes, and modern electrochemical technologies.				
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
20215	COMP 6960-009	3.0	Programming for BioMedical Data Science	Rebecca Barter	Online	Online	Online
Online Special Top	ics	in data sc represent contents,	se will provide an introduction to programming, in R a ience. Prior programming experience is not required. S ations. Using these common representations, students v and perform basic analysis to evaluate the data veracity elect and complete 4 short courses in the semester to fu th: <i>COMP 5960 090</i>	tudents will learn how to vill learn to prepare data y. This course is structur	o write code for l for analysis star ed as a series of	nandling data, focusi ting from various for stackable short-cours	ng on dataframe mats, visualize its
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
5195	MBIOL 7570	1.0	Research Ethics	Vasiliki Karahalios	W	4:00PM - 5:20PM	EHSEB 1750
First Half S Lecture		interest, p	ination of research integrity and other ethical issues inv plagiarism and authorship designation, and the role of s post-docs and regular faculty in the sciences.			include scientific fra	

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Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room			
7723	MDCRC 6000	2.0	Introduction to Biostatistics	Greg Stoddard	Online	Online	Online			
Online Lecture		Basic statistics with emphasis on medical and epidemiologic research problems, including description of data, theoretical distributions, hypothesis testing, multiple comparisons, correlation, confidence intervals, basic regression models, and sample size estimation.								
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room			
13417	MDCRC 6050	2.0	Biostatistics for Basic Science	Greg Stoddard	Online	Online	Online			
Online Lecture		significanc	atistical methods in basic science. Problems will be so e testing, multiple comparison adjustment, data mana d data (multiple observations in same animal). Animal	gement using Stata, com	puter graphics, s	sample size determina	ation, and analysis			
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room			
14808	MDCRC 6450	3.0	Grant Writing	Julie Shakib	Т	5:00PM - 7:00PM	EHSEB 2948			
Full Semeste Lecture	er.	Biosketch, format). Th	e covers the preparation of a research grant application as well as supporting appendices. Over the course of he course concludes with a mock study section. Enroll n in the next 12 months.	the semester, students w	vill complete a gr	ant application (usual	lly in the NIH			
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room			
15070	MDCRC 6521	1.0-5.0	Medicine & Physiology for Molecular Biologists	Kevin J Whitehead	T, Th	9:10AM- 10:30AM	EHSEB 2908			
Special Topics		understanding the importance of any molecular mechanism at the level of cells, organ and whole animals, and applying this information to humans. This course has a DIFFERENTIAL TUITION attached to it that is NOT covered by the Tuition Benefit Program.								
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room			
21378	ONCSC 6500-003	1.5	Clinical Biology of Cance	Rob Judson-Torres & Allie Grossmann	M, W, F	3:00PM-4:00PM	HCI Research South 6th floor conference room			
First Half Se Lecture		knowledge It is design oncology.	ing years, this course is focused on the current underst relates to the diagnosis, treatment, and prevention of ted for graduate students and post-doctoral fellows in l It will cover general principles and new developments a around specific diseases, using advances in each are	cancer. The complemen basic science departmen in cancer etiology, dete	tary sister-course ts with an interes ection, diagnosis,	e is focused on clinica st in modern principle treatment, and preve	al cancer biology es and practice of ntion. The course			
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room			
21248	ONCSC 6700-003	2	Oncogene Addiction in Cancer	Martin McMahon	Т	2:00-4:00PM	HCI Research South-2C			
First Half So		colorectal diseases. T biochemica drug resista durability o prospect(s)	lly-activated proto-oncogenes are key drivers of many cancers. Moreover, oncoprotein-targeted therapeutics 'hrough review of the primary literature, this discussio al basis of "Oncogene Addiction"; 2.Subsequent devel ance in understanding the mechanism(s) of cancer dru of patient's clinical response. By the end of the course o for future cancer cures based on oncoprotein pathway ch out to Martin McMahon ( <u>Martin.McMahon@hci.u</u> )	continue to have a dram n course will examine the opment of oncoprotein- g activity and; 4. Impor- s, students will have a the y-targeted therapies.	atic impact on th he: 1. Origins of targeted cancer t tance of combina	the treatment of these of our knowledge of the herapeutics; 3. Critica tion therapy to deepe	otherwise lethal e genetic and al importance of en and extend the			
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room			
4410	PATH 7330	3.0	Basic Immunology	Maria Bettini	T, Th	2:00PM - 3:30PM	EHSEB 3515E			
Full Semester Lecture		final third students. It programma	rrvey course covering the basic principles in Immunol of the course will feature clinical and experimental top t is also open for particularly interested undergrad stud atic depth. Students should have some exposure to bio d to complete BIOL 2020, 2030 and 3510 prior to taki	bics in Immunology. The ents, but is not specificate chemistry, modern gene	e course is prima ally intended as p	rily slated for gradua preparation for Med S	te and master school due to its			

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Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
20263	PH TX 7211	4.0	Principles of Toxicology	Farzana Alam	T, Th	1:30PM - 3:30PM	EHSEB 2948
Full Semest Lecture	er	approaches applied in drugs, Gas pathophysi	e aims to provide an overall understanding of current p s for managing important disease conditions. Topics in the different systems of the body, including Central no trointestinal drugs, Renal drugs, Bone and Endocrine iology, pharmacology, and toxicology will be presente ts during each session.	n Pharmacology and Tox ervous systems, Autonor systems, Antibiotics, Ca	kicology will con mic Nervous Syst ncer therapeutics	sist of the major dru tems, Cardiac drugs, s, and Immunotherap	g categories Respiratory bies. The relevant
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
8669	PHCEU 7010	1.5	Molecular Biology for Pharmaceutical Scientists	Carol Lim	M, W	11:00AM - 12:30PM	EHSEB 5100B
Lecture Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
Class # 6946	PHCEU	Cr Hrs 2.0	Course Title Drug Delivery	Lead Instructor Shreya Goel	Day T, Th	8:50AM-	Bldg/Room EHSEB 5100C
	7030		6 ,	,	,	10:50AM	
First Half Semester Lecture		carriers. Bio	n to polymer in Pharmaceutics and drug delivery. Trar precognition and drug targeting. Protein, oligonucleoti e: Graduate student status or instructor consent and C	de, and gene delivery sy		ns. Macromolecular	and vesicular
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
11523	PHCEU 7040	3.0	Biotechnology	James Herron, Yue Lu & Shawn Owen	M, W, F	10:00AM- 12:00PM	EHSEB 5100E
First Half S	emester		of kinetics and mechanisms of organic reactions and st adation and stabilization of drugs, proteins, and DNA.	ructure-reactivity relation	onships applied to	pharmaceutical sys	tems. Mechanisms

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Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
13138	ANAT 6400	1.5	Fundamentals in Cellular and Molecular Neuroscience	Ismail Ahmed	M, W	9:00AM - 10:30AM	BPRB 501
		will be to these pro- The mole during de in brain f	bus system is the most complex organ in the body; behave introduce core cellular and molecular processes in the n cesses can go awry in neurological disorders. Topics cov- cular basis for synaptic transmission – the conversion of velopment and learning How synapses signal to the nucl unction. Molecular basis of common neurological disord in stem cells, organoids	nain brain cell types; ne vered include: Cellular a electrical activity by ch leus to regulate gene exp	urons and glia. Ir nd molecular con nemical synapses pression The role	n addition, we will hi nposition of the nerv . How synapses form of glia (microglia ar	ghlight how ous system circuits id astrocytes)
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
13236	BIO C 6420	1.5	Biophysical Methods	Michael Kay, Owen Pornillos, & Wesley Sundquist	T, TH	2:30PM - 3:50PM	TBD
		include: a	se will focus on biochemical and biophysical approache advanced non-linear curve fitting, protein-ligand interact ifugation, calorimetry, biosensors, mass spectrometry/pr	ions, protein folding, sp	ectroscopic techi	niques, analytical	s covered wil
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Roon
13270	BIO C 6430	1.5	Structural Methods	Julia Brasch, Erhu Cao, Chris Hill, & Peter Shen	M, W, F	2:00PM - 2:50PM	BPRB 50
			se provides an integrated approach to the applications of overed include basic theory and the application of method			roscopy in structural	biology.
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Roor
13061	BIO C 6600	2.0	Regulation of Metabolism	Greg Ducker & Keren Hilgendorf	T, Th	9:30AM - 11:00AM	EHSEB 2600
		understar	semester course will begin with a review of carbohydrat ding the pathways and what is known about their regula reas of nutritional sensing and metabolic regulation.				
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Roor
13141	BIOL 6140	1.5	Advanced Genetics	Kent Golic, Kelly Hughes, & Erik Jorgensen	M, W, F	10:45AM - 11:35AM	CSC 25
		encompar a branch cells, in is in gene re source of	d Genetics covers the fundamentals of classical genetics sses the mechanisms of inheritance and the behavior of g of biological investigation that uses mutations and mutat solation and in a developmental context. Prokaryotes and egulation and in their cellular biology. Prokaryotes provi new genetic tools and biological understanding with hea- ilar biology, cell biology and classical genetics to invest	enes and chromosomes nt phenotypes to study the d eukaryotes have differ ded the foundational dis alth and ecological relevance	in somatic cells he function and b ent modes of inh scoveries of mole vance. Modern eu	and germ cells. Gene behavior of cells and eritance and significa cular biology and co karyotic genetics ble	tic analysis is groups of ant difference ntinue to be a
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Roor
14414	CHEM 6740	2.0	Bioanalytical Chemistry	Jennifer Shumaker- Parry	T, Th	10:45AM- 12:05PM	CSC 25
		include a	se is intended to provide an overview of the methods of discussion of separations techniques, the spectroscopy of methods.	2		<i>U</i> 1	1
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Roon
20477	CHEM 7450	2.0	Biophysical Chemistry	Jessica Swanson	T, TH	9:10AM - 10:30AM	HEB 2010
		to macros	se will cover foundational principles in physical chemist scopic levels. Probability theory is a unifying framework ular behavior.				

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Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
15547	H GEN 6490	2.0	Introduction to Omics: Applications to Research	Charlie Murtaugh & Robert Weiss	T, TH	11:10AM - 12:30PM	EHSEB 5100B
	0420	transcript importan	mpletion of this course, students will: • Understand the second somics, proteomics, and metabolomics. • Understand om ce of experimental design in omics research. • Understar atching, computational resources, and working with coll	cope of omics research a ics in terms of investiga id the challenges and lin	tion for biologic nitations of big d	enomics, epigenomical questions. • Learn	cs, about the
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
13095	ONCSC 6500-002	1.5	Molecular Mechanisms of Cancer	Sean Tavtigian	M, W, F	1:00PM - 1:50PM	HCI - South Auditorium
		knowledg biology. I practice o	ting years, this course is focused on the current understa ge relates to the diagnosis, treatment and prevention of ca It is designed for graduate students and post-doctoral fell of oncology. It will cover general principles and new dev in. The course is organized around specific diseases, usin	ancer. The complementa lows in basic science de elopments in cancer etio	ry sister-course partments with a ology, detection,	is focused on clinica n interest in modern diagnosis, treatment	vith how this l cancer principles and , and
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
15206 / 15204	ONCSC 6701/ BIO C 6701	2.0	Cell Biology	Matthew Miller & Ben Myers	T, Th	2:30PM - 4:00PM	EHSEB 4100B
		understar <i>Reach ou</i>	<pre>would you answer them? 2. To be able to articulate scier ading of selected topics in cell biology at to Matt Miller ( matt.miller@biochem.utah.edu) &amp; B</pre>	en Myers ( <u>benjamin.m</u> y	·	-	code
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
17772	PATH 6500-002	1.0	Immunity, Inflammation and Infectious Disease	Aaron Petrey, Melissa Reeves, & Arabella Young	M, W	2:00PM - 3:20PM	EHSEB 5100C
		endocrine intimately Studies in deadly pa immunol for under and funct and helpi does the is system re are the m Why don	une system is an integral part of virtually every organ sy e, to name just a few. Moreover, while the immune syste y involved in a variety of diseases that plague the modern n immunology have led revolutionary discoveries that ha thogens through vaccination and reversal of cancers thro ogical concepts is broadly applicable in multiple disease standing fundamental concepts of cellular and molecular ion, DNA recombination and repair, and cell signaling. Ing to solidify cell biology, genetic and molecular biolog immune system detect and respond to microbes? How do eact to self tissue? How do cells of the immune system di echanisms used by the immune system to recognize such 't we generally get sick twice with the same pathogen? Ur piology will improve understanding of this course.	m is fundamental to our n world including all can ve fundamentally transf ough immune-based their settings. Furthermore, t biology, including ever This course was designe y concepts. This course bes immunity elicit prote ifferentiate and make fait a diversity of microbes	ability to fend o ncers, behavioral ormed human he rapies. Thus, an i he immune syste at controlling cc d to introduce ba will allow you to extion from micr te decisions in re s? How is the im	ff infectious pathoge diseases, and autoin ealth, such as protect understanding of bas emprovides an effect ellular development, asic immunology wh o address questions s obes? Why doesn't t sponse to external st mune system used to	ns, it is nmunity. ion from ic ive platform differentiation ile integrating uch as: How he immune imuli? What fight cancer?
Class #	Catalog #	Cr Hrs	Course Title	Lead Instructor	Day	Time	Bldg/Room
13298	PHARM 6500	2.0	Therapeutics Discovery, Development, and Evaluation	Raphael Franzini & Mei Koh	TBA	TBA	TBA
			-semester course, which is open to graduate students from al Chemistry/Molecular Biology PhD programs, will exp				