

Web Address - <http://www.registrar.caltech.edu/>**KEY TO ABBREVIATIONS****LOCATIONS**

ANB	Annenberg Center for Information Science and Technology	KAR	Karman Laboratory
ARM	Arms Laboratory of Geological Sciences	KCK	Keck Engineering Laboratory
AVE	Avery House	KLK	Kellogg Radiation Laboratory
BAC	Braun Athletic Center	KRK	Kerckhoff Laboratory of Biological Sciences
BAX	Baxter Hall of Humanities and Social Services	KSP	Keith Spaulding Building
BBB	Beckman Laboratory of Behavioral Biology	L+R	Linde + Robinson Laboratory for Global Environmental Science
BCK	Beckman Institute	LAU	Lauritsen Physics Laboratory
BRD	Broad Center	LINDE	Ronald and Maxine Linde Hall of Mathematics and Physics
BRG	Bridge Laboratory of Physics	MEAD	Undergraduate Chemistry Laboratory
BRN	Braun Laboratory	MRE	Moore Laboratory
BRW	Brown Gym	NMD	North Mudd Building of Geological Sciences
CHL	Cahill Center for Astronomy and Astrophysics	NYS	Noyes Laboratory of Chemical Physics
CHR	Church Laboratory of Chemical Biology	NewMedia	NewMedia Classroom
CRL	Crellin Chemistry Laboratory	POLY	Polytechnic School
CSS	Center for Student Services	PWL/BTH	Powell/Booth Laboratory
DAB	Dabney Hall of Humanities	SAC	Student Activities Center
DWN	Downs Physics Laboratory	SCH	Schlinger Laboratory
DWN/LAU	Downs Lauritsen	SFL	Sherman Fairchild Library
FIR	Firestone Flight Science Laboratory	SMD	South Mudd Building of Geophysics and Planetary Sciences
GCL	Gates Chemical Laboratory	SPL	Spaulding Laboratory of Chemical Engineering
GTL	Gates-Thomas Engineering Laboratory	STL	Steele Laboratory of Electrical Engineering
GUG	Guggenheim Laboratory	TCT	Theater Arts at Caltech (TACIT)
HAM	Hameetman Center	WAT	Watson Laboratory of Applied Physics
JRG	Jorgensen Laboratory	YHC	Young Health Center

GRADING SCHEME

G = Grades Only
 P = Pass/Fail Only
 Blank = Grades/may exercise P/F

TIMES/LOCATION/UNITS

A = Hours/Location to be Arranged
 + = Units to be Arranged
 OM = Organizational Meeting

DAYS OF THE WEEK

M = Monday	R = Thursday
T = Tuesday	F = Friday
W = Wednesday	S = Saturday
	U = Sunday

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AEROSPACE							
Ae 100	+	Research in Aerospace	01	Culick, F	A	A	P
			02	Ravichandran, G	A	A	P
			03	Rosakis, A	A	A	P
			04	Meiron, D	A	A	P
			05	Dimotakis, P	A	A	P
			06	McKeon, B	A	A	P
			07	Blanquart, G	A	A	P
			08	Daraio, C	A	A	P
			09	Shepherd, J	A	A	P
			10	Gharib, M	A	A	P
			11	Chung, S	A	A	P
			12	Pellegrino, S	A	A	P
			13	Austin, J	A	A	P
Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Pullin, D	MWF 10:00 - 10:55	A	P
Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	A	G
Ae 103B	3-0-6	Aerospace Control Systems	01	Fragoso, A	TR 14:30 - 15:55	A	
Ae 105C	0-8-1	Space Engineering	01	Chung, S	TR 16:30 - 17:55	A	G
APh/Ph/Ae 116	3-0-6	Physics of Thermal and Mass Transport in Hydrodynamic Systems <i>class cancelled</i>	01	Troian, S	A	A	
Ae/ME 120A	3-0-6	Combustion Fundamentals	01	Blanquart, G	MWF 14:00 - 14:55	A	G
Ae 121C	3-0-6	Space Propulsion	01	Polk, J	TR 13:00 - 14:25	A	
Ae 150C	1-0-0	Aerospace Engineering Seminar	01	Meiron, D	M 13:00 - 13:55	A	P

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AEROSPACE							
Ae 200	+	Advanced Research in Aerospace	01	Bellan, P	A	A	P
			02	Schneider, T	A	A	P
			03	Pellegrino, S	A	A	P
			04	Dimotakis, P	A	A	P
			05	Gharib, M	A	A	P
			06	Hornung, H	A	A	P
			07	McKeon, B	A	A	P
			08	Leonard, A	A	A	P
			09	Murray, R	A	A	P
			10	Ortiz, M	A	A	P
			11	Pullin, D	A	A	P
			12	Ravichandran, G	A	A	P
			13	Rosakis, A	A	A	P
			14	Bhattacharya, K	A	A	P
			15	Colonus, T	A	A	P
			16	Shepherd, J	A	A	P
			17	Blake, G	A	A	P
			18	Lapusta, N	A	A	P
			19	Troian, S	A	A	P
			20	Daraio, C	A	A	P
			21	Chung, S	A	A	P
			22	Blanquart, G	A	A	P
			23	Kochmann, D	A	A	P
			24	Greer, J	A	A	P
			25	Gurnis, M	A	A	P
			26	Minnich, A	A	A	P
			27	Johnson, J	A	A	P
			28	Austin, J	A	A	P
			29	Kulkarni, S	A	A	P
			30	Meiron, D	A	A	P
			31	Burdick, J	A	A	P
			32	Asimaki, D	A	A	P
			33	Hunt, M	A	A	P

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AEROSPACE							
Ae 200	+	Advanced Research in Aerospace	34	Dickinson, M	A	A	P
			35	Mawet, D	A	A	P
			36	Dabiri, J	A	A	P
Ae 204B	3-0-6	Technical Fluid Mechanics	01	Gharib, M	MWF 09:00 - 09:55	A	
Ae 208C	1-0-0	GALCIT Colloquium	01	McKeon, B / Chung, S	F 15:00 - 15:55	A	P
ME/MS/Ae/AM 224	3-0-6	Multifunctional Materials	01	Bhattacharya, K	TR 13:00 - 14:25	A	
Ae/ACM/ME 232B	3-0-6	Computational Fluid Dynamics <i>class cancelled</i>	01	Pullin, D	A	A	
Ae 234B	3-0-6	Hypersonic Aerodynamics	01	Austin, J	MW 15:30 - 16:55	A	P
Ae 240	+	Special Topics in Fluid Mechanics <i>Section 1: Educational Exchange (Pass-Fail only)</i>	01	Meiron, D	A	A	P
ANTHROPOLOGY							
An 016	3-0-6	World Archeology	01	Alex, B	TR 14:30 - 15:55	A	
An 097	+	Undergraduate Research	01	Staff	A	A	P
APPLIED & COMPUTATIONAL MATH							
ACM011	2-2-2	Introduction to Matlab and Mathematica	01	Qian, E	M 13:00 - 14:55	A	
ACM080C	+	Undergraduate Thesis	01	Staff	A	A	P
ACM081C	+	Undergraduate Projects in Applied and Computational Mathematics	01	Chandrasekaran, V	A	A	P

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APPLIED & COMPUTATIONAL MATH							
ACM095B	4-0-8	Introductory Methods of Applied Mathematics for the Physical Sciences	01	Meiron, D	MWF 11:00 - 12:15	A	
ACM100B	4-0-8	Introductory Methods of Applied Mathematics for the Physical Sciences	01	Meiron, D	MWF 11:00 - 12:15	A	
ACM109	3-3-3	Mathematical Modelling <i>for undergraduates: instructor permission required prior to enrollment // maximum enrollment: 24 students</i>	01	Stuart, A	TR 09:00 - 10:25 TR 14:30 - 15:55	A A	
IDS/ACM/CS 157	3-2-4	Statistical Inference	01	Zuev, K	TR 09:00 - 10:25	A	
ACM/EE/IDS 170	3-0-9	Mathematics of Signal Processing	01	Hassibi, B	TR 13:00 - 14:25	A	
ACM190	+	Reading and Independent Study	01	Staff	A	A	P
Ae/ACM/ME 232B	3-0-6	Computational Fluid Dynamics <i>class cancelled</i>	01	Pullin, D	A	A	
ACM270	3-0-6	Advanced Topics in Applied and Computational Math: Point Processes and Stochastic Geometry	01	Tropp, J	TR 14:30 - 15:55	A	G
ACM300	+	Research in Applied and Computational Mathematics	01 02 03 04 05 06 07 08 09 10 11	Bruno, O Chandrasekaran, V Desbrun, M Hou, Y Tropp, J Meiron, D Stuart, A Owhadi, H Hassibi, B Schroeder, P Beck, J	A A A A A A A A A A A	A A A A A A A A A A A	P P P P P P P P P P P
APPLIED MECHANICS							

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APPLIED MECHANICS							
Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	A	G
AM/CE/ME 150C	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	A	P
AM 201	3-0-6	Advanced Topics in Applied Mechanics <i>taught concurrently with ME 201 and CE 201</i>	01	Andrade, J	TR 15:00 - 16:25	A	
ME/MS/Ae/AM 224	3-0-6	Multifunctional Materials	01	Bhattacharya, K	TR 13:00 - 14:25	A	
AM 300	+	Research in Applied Mechanics	01	Lapusta, N	A	A	P
			02	Bhattacharya, K	A	A	P
			03	Andrade, J	A	A	P
			04	Avouac, J	A	A	P
			05	Murray, R	A	A	P
			06	Ortiz, M	A	A	P
			07	Phillips, R	A	A	P
			08	Ravichandran, G	A	A	P
			09	Fu, X	A	A	P
			10	Greer, J	A	A	P
APPLIED PHYSICS							
APh078C	0-9-0	Senior Thesis, Experimental	01	Atwater, H	A	A	
			02	Painter, O	A	A	
			03	Yung, Y	A	A	
			04	Scherer, A	A	A	
			05	Vahala, K	A	A	
			06	Bellan, P	A	A	
			07	Troian, S	A	A	
			08	Phillips, R	A	A	
			09	Faraon, A	A	A	
			10	Schwab, K	A	A	
			11	Endres, M	A	A	
			12	Hajimiri, S	A	A	

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APPLIED PHYSICS							
APh079C	0-9-0	Senior Thesis, Theoretical	01	Phillips, R	A	A	G
			02	Troian, S	A	A	G
			03	Kimble, H	A	A	G
APh100	+	Advanced Work in Applied Physics	01	Phillips, R	A	A	P
			02	Atwater, H	A	A	P
			03	Faraon, A	A	A	P
			04	Schwab, K	A	A	P
			05	Troian, S	A	A	P
			06	Faraon, A	A	A	P
			07	Bellan, P	A	A	P
			08	Scherer, A	A	A	P
			09	Minnich, A	A	A	P
			10	Painter, O	A	A	P
			11	Quartz, S	A	A	P
			12	Kimble, H	A	A	P
			13	Polk, J	A	A	P
			14	Hajimiri, S	A	A	P
			15	Hajimiri, S	A	A	P
			16	Falson, J	A	A	P
Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Pullin, D	MWF 10:00 - 10:55	A	P
APh/MS 105C	3-0-6	States of Matter	01	Falson, J	TR 09:00 - 10:25	A	
APh/EE 109	0-6-3	Introduction to the Micro/Nanofabrication Lab <i>class cancelled</i>	01	Staff	A	A	
APh114C	3-0-6	Solid-State Physics	01	Schwab, K	MWF 09:00 - 09:55	A	
APh/Ph/Ae 116	3-0-6	Physics of Thermal and Mass Transport in Hydrodynamic Systems <i>class cancelled</i>	01	Troian, S	A	A	

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APPLIED PHYSICS							
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	A	P
MS/APh 122	0-4-5	Diffraction, Imaging, and Structure <i>class cancelled</i>	01	Ahn, C	A	A	
APh/Ph 138A	3-0-6	Quantum Hardware and Techniques	01	Endres, M / Faraon, A / Hsieh, D / Nad Perge, S	TR 09:00 - 10:25	A	
APh150	3-0-6	Topics in Applied Physics: Human Impacts by the Numbers <i>class cancelled</i>	01	Phillips, R	A	A	P
APh156C	3-0-6	Plasma Physics	01	Bellan, P	MW 14:30 - 15:55	A	
MS/APh 171	3-0-6	Inelastic Scattering of Materials, Molecules, and Condensed Matter	01	Fultz, B	MW 09:30 - 10:55	A	
APh/EE 183	3-0-6	Physics of Semiconductors and Semiconductor Devices	01	Nad Perge, S	TR 13:00 - 14:25	A	
APh200	+	Applied Physics Research	01	Desbrun, M	A	A	P
			02	Bellan, P	A	A	P
			03	Atwater, H	A	A	P
			04	Troian, S	A	A	P
			05	Johnson, W	A	A	P
			06	Chen, Y	A	A	P
			07	Yariv, A	A	A	P
			08	Vahala, K	A	A	P
			09	Lewis, N	A	A	P
			10	Fultz, B	A	A	P
			11	Schwab, K	A	A	P
			12	Heath, J	A	A	P
			13	Refael, G	A	A	P
			14	Kimble, H	A	A	P
			15	Goddard, W	A	A	P
			16	Faraon, A	A	A	P

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APPLIED PHYSICS							
APh200	+	Applied Physics Research	17	Minnich, A	A	A	P
			18	Yang, C	A	A	P
			19	Motrunich, O	A	A	P
			20	Hsieh, D	A	A	P
			21	Preskill, J	A	A	P
			22	Painter, O	A	A	P
			23	Bernardi, M	A	A	P
			24	Roukes, M	A	A	P
			25	Alicea, J	A	A	P
			26	Gharib, M	A	A	P
			27	Nad Perge, S	A	A	P
			28	Rosenbaum, T	A	A	P
			29	Hutzler, N	A	A	P
			30	Rees, D	A	A	P
			31	Elowitz, M	A	A	P
			32	Yeh, N	A	A	P
			33	Falson, J	A	A	P
			34	Bock, J	A	A	P
			35	Marandi, A	A	A	P
			36	Endres, M	A	A	P
			37	Cushing, S	A	A	P
			39	Scherer, A	A	A	P
			40	Phillips, R	A	A	P
42	Adhikari, R	A	A	P			
43	Spiropulu, M	A	A	P			
Ph/APh 223B	3-0-6	Advanced Condensed-Matter Physics	01	Kitaev, A	MW 09:00 - 10:25	A	
APh250	3-0-6	Advanced Topics in Applied Physics: Stochasticity and Resonance in Nanoscale Systems	01	Troian, S	TR 15:00 - 16:25	A	
APh300	+	Thesis Research in Applied Physics	01	Yariv, A	A	A	P
			02	Troian, S	A	A	P

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APPLIED PHYSICS							
APh300	+	Thesis Research in Applied Physics	03	Vahala, K	A	A	P
			04	Schwab, K	A	A	P
			05	Bernardi, M	A	A	P
			06	Flagan, R	A	A	P
			07	Faraon, A	A	A	P
			08	Hsieh, D	A	A	P
			09	Fultz, B	A	A	P
			10	Atwater, H	A	A	P
			11	Desbrun, M	A	A	P
			12	Daraio, C	A	A	P
			13	Refael, G	A	A	P
			14	Nad Perge, S	A	A	P
			15	Rosenbaum, T	A	A	P
			16	Vahala, K	A	A	P
			17	Hutzler, N	A	A	P
			18	Falson, J	A	A	P
			19	Marandi, A	A	A	P
			21	Roukes, M	A	A	P
			26	Scherer, A	A	A	P
			27	Chen, Y	A	A	P
31	Phillips, R	A	A	P			
33	Bellan, P	A	A	P			
36	Painter, O	A	A	P			
38	Zmuidzinas, J	A	A	P			
ASTROPHYSICS							
Ay 001	3-3-3	The Evolving Universe <i>not open to juniors or seniors</i>	01	Djorgovski, S	MWF 14:00 - 14:55	A	
Ge/Ay 011C	3-0-6	Introduction to Earth and Planetary Sciences: Planetary Sciences <i>Taught concurrently with Ge 103</i>	01	Ingersoll, A	TR 13:00 - 14:25	A	
Ay 031	1-0-2	Writing in Astronomy <i>Open to declared Ay majors at the discretion of</i>	01	Howard, A	F 15:00 - 15:55	A	G

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ASTROPHYSICS							
Ay 043	+	Reading in Astronomy and Astrophysics	01	Hillenbrand, L	A	A	P
Ay 078C	+	Senior Thesis	02	Hillenbrand, L	A	A	P
			03	Blake, G	A	A	P
			04	Steidel, C	A	A	P
			05	Cohen, J	A	A	P
			06	Scoville, N	A	A	P
			08	Martin, C	A	A	P
			09	Prince, T	A	A	P
			11	Harrison, F	A	A	P
			12	Hallinan, G	A	A	P
			13	Phinney, E	A	A	P
			14	Hopkins, P	A	A	P
			15	Knutson, H	A	A	P
			16	Mawet, D	A	A	P
17	Kirby, E	A	A	P			
18	Kasliwal, M	A	A	P			
19	Djorgovski, S	A	A	P			
Ay 105	1-5-3	Optical Astronomy Instrumentation Lab	01	Mawet, D / Hillenbrand, L	A	A	
Ay 119	3-0-3	Astroinformatics	01	Djorgovski, S / Graham, M / Mahabal, A / Duev, D	A	A	
Ay 125	3-0-6	High-Energy Astrophysics	01	Kasliwal, M	TR 10:30 - 11:55	A	
Ay 126	3-0-6	Interstellar and Intergalactic Medium	01	Kulkarni, S	TR 14:30 - 15:55	A	G
Ay 141C	1-0-2	Research Conference in Astronomy	01	Ravi, V	F 16:00 - 16:55	A	P
Ay 142	+	Research in Astronomy and Astrophysics	01	Ravi, V	A	A	P
			02	Blake, G	A	A	P

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ASTROPHYSICS										
Ay 142	+	Research in Astronomy and Astrophysics	03	Stevenson, D	A	A	P			
			04	Brown, M	A	A	P			
			05	Harrison, F	A	A	P			
			06	Djorgovski, S	A	A	P			
			07	Readhead, A	A	A	P			
			08	Golwala, S	A	A	P			
			09	Hillenbrand, L	A	A	P			
			11	Kulkarni, S	A	A	P			
			12	Martin, C	A	A	P			
			13	Zmuidzinas, J	A	A	P			
			14	Hallinan, G	A	A	P			
			15	Prince, T	A	A	P			
			16	Mawet, D	A	A	P			
			19	Sargent, A	A	A	P			
			20	Hopkins, P	A	A	P			
			21	Dore, O	A	A	P			
			22	Scoville, N	A	A	P			
			23	Steidel, C	A	A	P			
			24	Phinney, E	A	A	P			
			25	Rogers, L	A	A	P			
			26	Soifer, B	A	A	P			
			27	Knutson, H	A	A	P			
			28	Kasliwal, M	A	A	P			
			29	Kirby, E	A	A	P			
			30	Batygin, K	A	A	P			
			31	Batygin, K	A	A	P			
			32	Bock, J	A	A	P			
			33	Fuller, J	A	A	P			
			34	Howard, A	A	A	P			
			Ay 143	+	Reading and Independent Study	01	Steidel, C	A	A	P
						03	Kulkarni, S	A	A	P
						04	Hopkins, P	A	A	P
						05	Batygin, K	A	A	P

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ASTROPHYSICS							
Ay 143	+	Reading and Independent Study	06	Brown, M	A	A	P
			07	Blake, G	A	A	P
			08	Knutson, H	A	A	P
Ay 144	+	Independent Writing in Astronomy	01	Bock, J	A	A	P
			02	Readhead, A	A	A	P
Ay/Ge 198	2-0-4	Special Topics in the Planetary Sciences	01	Mawet, D / Howard, A	M 10:00 - 11:55	A	
BIOCHEMISTRY & MOLECULAR BIOPHYSICS							
BMB/Ch 202C	1-0-0	Biochemistry Seminar Course	01	Clemons, W	R 12:00 - 12:55	A	P
BMB299	+	Graduate Research	01	Mayo, S	A	A	P
			02	Deshaies, R	A	A	P
			03	Fraser, S	A	A	P
			04	Bjorkman, P	A	A	P
			05	Arnold, F	A	A	P
			06	Rees, D	A	A	P
			07	Baltimore, D	A	A	P
			08	Campbell, J	A	A	P
			09	Goddard, W	A	A	P
			10	Kennedy, M	A	A	P
			11	Hsieh-Wilson, L	A	A	P
			12	Tirrell, D	A	A	P
			13	Parker, C	A	A	P
			14	Greer, J	A	A	P
			15	Dervan, P	A	A	P
			16	Chan, D	A	A	P
			17	Anderson, D	A	A	P
			18	Dougherty, D	A	A	P
			19	Shan, S	A	A	P
			20	Jensen, G	A	A	P
			21	Elowitz, M	A	A	P

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BIOCHEMISTRY & MOLECULAR BIOPHYSICS							
BMB299	+	Graduate Research	22	Ismagilov, R	A	A	P
			23	Heath, J	A	A	P
			24	Meyerowitz, E	A	A	P
			25	Hay, B	A	A	P
			26	Wold, B	A	A	P
			27	Davis, M	A	A	P
			28	Phillips, R	A	A	P
			29	Barton, J	A	A	P
			30	Clemons, W	A	A	P
			31	Leadbetter, J	A	A	P
			32	Murray, R	A	A	P
			33	Mazmanian, S	A	A	P
			34	Baltimore, D	A	A	P
			35	Wang, Z	A	A	P
			36	Gharib, M	A	A	P
			37	Rothenberg, E	A	A	P
			38	Lester, H	A	A	P
			39	Pierce, N	A	A	P
			40	Sternberg, P	A	A	P
			41	Roukes, M	A	A	P
			42	Gray, H	A	A	P
			43	Shapiro, M	A	A	P
			44	Newman, D	A	A	P
			45	Cai, L	A	A	P
			46	Varshavsky, A	A	A	P
			47	Hoelz, A	A	A	P
			48	Goentoro, L	A	A	P
			49	Guttman, M	A	A	P
			50	Meister, M	A	A	P
			51	Zinn, K	A	A	P
			52	Miller, T	A	A	P
			53	Dunphy, W	A	A	P
			54	Wagenaar, D	A	A	P

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BIOCHEMISTRY & MOLECULAR BIOPHYSICS							
BMB299	+	Graduate Research	55	Voorhees, R	A	A	P
			56	Pachter, L	A	A	P
			57	Parker, J	A	A	P
			58	Semlow, D	A	A	P
			59	Thomson, M	A	A	P
BIOENGINEERING							
BE 098	+	Undergraduate Research in Bioengineering <i>If your research adviser does not appear below, please contact the Office of the Registrar.</i>	01	Arnold, F	A	A	P
			02	Mazmanian, S	A	A	P
			03	Burdick, J	A	A	P
			04	Sternberg, P	A	A	P
			05	Kennedy, M	A	A	P
			06	Gradinaru, V	A	A	P
			07	Gharib, M	A	A	P
			08	Hajimiri, S	A	A	P
			09	Aravin, A	A	A	P
			10	Lester, H	A	A	P
			11	Shimojo, S	A	A	P
			12	Pierce, N	A	A	P
			13	Shapiro, M	A	A	P
			14	Shan, S	A	A	P
			15	Qian, L	A	A	P
			16	Roukes, M	A	A	P
			17	Scherer, A	A	A	P
			18	Tai, Y	A	A	P
			19	Tirrell, D	A	A	P
			20	Yang, C	A	A	P
			21	Mayo, S	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			25	Wang, K	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfree, E	A	A	P

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BIOENGINEERING							
BE 098	+	Undergraduate Research in Bioengineering <i>If your research adviser does not appear below, please contact the Office of the Registrar.</i>	28	Guttman, M	A	A	P
			29	Oka, Y	A	A	P
			30	Kornfield, J	A	A	P
			31	Baltimore, D	A	A	P
			33	Hay, B	A	A	P
			34	Beauchamp, J	A	A	P
			35	Bjorkman, P	A	A	P
			36	Adolphs, R	A	A	P
			37	Ismagilov, R	A	A	P
			38	Dickinson, M	A	A	P
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	A	P
BE 150	3-0-6	Biological Circuit Design <i>taught concurrently with Bi 250b</i>	01	Bois, J / Elowitz, M	MWF 11:00 - 11:55	A	
BE 153	3-0-6	Case Studies in Systems Physiology	01	Petrasek, D	TR 14:30 - 15:55	A	
BE/EE/MedE 189A	3-6-3	Design and Construction of Biodevices <i>maximum enrollment: 24 students</i>	01	Yang, C	TR 14:30 - 15:55	A	
BE/EE/MedE 189B	0-9-0	Design and Construction of Biodevices	01	Yang, C	TR 14:30 - 15:55	A	
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation	01	Winfree, E	A	A	
BE/CS 196B	2-8-2	Design and Construction of Programmable Molecular Systems	01	Qian, L	A	A	
BE 200	+	Research in Bioengineering	01	Arnold, F	A	A	P
			02	Phillips, R	A	A	P
			03	Burdick, J	A	A	P
			04	Gradinaru, V	A	A	P
			05	Dervan, P	A	A	P
			06	Goentoro, L	A	A	P

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BIOENGINEERING							
BE 200	+	Research in Bioengineering	07	Gharib, M	A	A	P
			08	Hajimiri, S	A	A	P
			09	Heath, J	A	A	P
			10	Lester, H	A	A	P
			11	Ismagilov, R	A	A	P
			12	Pierce, N	A	A	P
			13	Meister, M	A	A	P
			14	Guttman, M	A	A	P
			15	Troian, S	A	A	P
			16	Roukes, M	A	A	P
			17	Scherer, A	A	A	P
			18	Tai, Y	A	A	P
			19	Tirrell, D	A	A	P
			20	Yang, C	A	A	P
			21	Rothmund, P	A	A	P
			22	Greer, J	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			25	Goddard, W	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfree, E	A	A	P
			28	Shapiro, M	A	A	P
			29	Cai, L	A	A	P
			30	Sternberg, P	A	A	P
			31	Kornfield, J	A	A	P
			32	Andersen, R	A	A	P
			33	Qian, L	A	A	P
			34	Hong, E	A	A	P
			35	Mayo, S	A	A	P
			36	Dickinson, M	A	A	P
			37	Pachter, L	A	A	P
			38	Mazmanian, S	A	A	P
			39	Bjorkman, P	A	A	P

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BIOENGINEERING										
BE 200	+	Research in Bioengineering	40	Parker, J	A	A	P			
			41	Greer, J	A	A	P			
			42	Wang, K	A	A	P			
			43	Thomson, M	A	A	P			
			44	Meyerowitz, E	A	A	P			
			45	Chan, D	A	A	P			
			46	Newman, D	A	A	P			
			47	Rutishauser, U	A	A	P			
			48	Clemons, W	A	A	P			
			49	Lois, C	A	A	P			
BE/Bi 205	3-0-6	Deep Learning for Biological Data	01	Van Valen, D	MW 13:00 - 14:25	A				
Bi/BE 222	2-0-4	The Structure of the Cytosol	01	Kennedy, M	W 19:00 - 20:55	A				
BIOLOGY										
Bi 001	4-0-5	Principles of Biology - The great theories of biology and their influence in the modern world <i>Sections 1 and 2 are reserved for students with no biology background // maximum enrollment: 30 students per section // All students must complete a survey at http://registrar.caltech.edu/Bi1_SP2020-21 prior to enrollment</i>	01	Hay, B / Corfas, R	TR 13:00 - 14:25 M 09:00 - 09:55	A A	G			
			02	Hay, B / Corfas, R	TR 13:00 - 14:25 M 17:00 - 17:55	A A	G			
			03	Hay, B / Corfas, R	TR 13:00 - 14:25 T 09:00 - 09:55	A A	G			
			04	Hay, B / Corfas, R	TR 13:00 - 14:25 T 17:00 - 17:55	A A	G			
			05	Hay, B / Corfas, R	TR 13:00 - 14:25 T 18:00 - 18:55	A A	G			
			06	Hay, B / Corfas, R	TR 13:00 - 14:25 W 09:00 - 09:55	A A	G			
			07	Hay, B / Corfas, R	TR 13:00 - 14:25 W 17:00 - 17:55	A A	G			
			Bi 001X	0-6-3	The Great Ideas of Biology: Exploration through Experimentation	01	Bois, J	T 19:00 - 21:55 W 13:00 - 15:55	A A	G

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BIOLOGY							
Bi 001X	0-6-3	The Great Ideas of Biology: Exploration through Experimentation <i>open by lottery only, see REGIS home page to enter before 8am February 24th // maximum enrollment: 30 students // Make-up classes will be on Thursdays from 7-10pm</i>					
Bi 009	3-0-6	Cell Biology	01	Chan, D / Prober, D	TR 09:00 - 10:25 F 09:00 - 09:55	A A	
Bi 021	+	Undergraduate Research with Presentation <i>minimum 12 units per term</i>	01	Staff	A	A	P
Bi 022	+	Undergraduate Research	01	Shan, S	A	A	P
			02	Bronner Hansen, M	A	A	P
			03	Van Valen, D	A	A	P
			04	Varshavsky, A	A	A	P
			05	Arnold, F	A	A	P
			06	Stathopoulos, A	A	A	P
			07	Zinn, K	A	A	P
			08	Bronner Hansen, M	A	A	P
			09	Mazmanian, S	A	A	P
			10	Strauss, J	A	A	P
			11	Newman, D	A	A	P
			12	Chan, D	A	A	P
			13	Leadbetter, J	A	A	P
			14	Tirrell, D	A	A	P
			16	Orphan, V	A	A	P
			17	Fraser, S	A	A	P
			18	Deshaies, R	A	A	P
			19	Kennedy, M	A	A	P
			20	Shimojo, S	A	A	P
			21	Adolphs, R	A	A	P
			22	Lester, H	A	A	P
			23	Prober, D	A	A	P

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BIOLOGY							
Bi 022	+	Undergraduate Research	24	Gradinaru, V	A	A	P
			25	Allman, J	A	A	P
			26	Wold, B	A	A	P
			27	Peter Lashgari Faghani, I	A	A	P
			28	Meyerowitz, E	A	A	P
			29	Shapiro, M	A	A	P
			30	Hong, E	A	A	P
			31	Rees, D	A	A	P
			32	Aravin, A	A	A	P
			33	Bjorkman, P	A	A	P
			34	Ondrus, A	A	A	P
			35	Meister, M	A	A	P
			36	Baltimore, D	A	A	P
			37	Wang, K	A	A	P
			38	Campbell, J	A	A	P
			39	Parker, C	A	A	P
			40	Winfrey, E	A	A	P
			41	Hsiao, E	A	A	P
			42	Andersen, R	A	A	P
			43	Hay, B	A	A	P
			44	Jensen, G	A	A	P
			45	Goddard, W	A	A	P
			46	Elowitz, M	A	A	P
			47	Anderson, D	A	A	P
			48	Stathopoulos, A	A	A	P
			49	Rothenberg, E	A	A	P
			50	Sternberg, P	A	A	P
			51	Cai, L	A	A	P
			55	Sternberg, P	A	A	P
			56	Phillips, R	A	A	P
			57	Clemons, W	A	A	P
			58	Oka, Y	A	A	P
			59	Dickinson, M	A	A	P

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BIOLOGY										
Bi 022	+	Undergraduate Research	60	Lois, C	A	A	P			
			61	Ondrus, A	A	A	P			
			62	Pachter, L	A	A	P			
			63	Guttman, M	A	A	P			
			64	Glover, D	A	A	P			
			65	Parker, J	A	A	P			
Bi 090C	+	Undergraduate Thesis	02	Bjorkman, P / Siapas, A	A	A	P			
			03	Bjorkman, P / Sternberg, P	A	A	P			
			05	Bjorkman, P / Davis, M	A	A	P			
			06	Bjorkman, P	A	A	P			
			07	Bjorkman, P / Aravin, A	A	A	P			
			08	Bjorkman, P / Doyle, J	A	A	P			
			09	Bjorkman, P / Newman, D	A	A	P			
			10	Bjorkman, P / Baltimore, D	A	A	P			
			11	Bjorkman, P / Rothenberg, E	A	A	P			
			12	Wold, B / Bjorkman, P	A	A	P			
			13	Bjorkman, P / Gradinaru, V	A	A	P			
			14	Bjorkman, P / Newman, D	A	A	P			
			15	Bjorkman, P / Hsieh-Wilson, L	A	A	P			
			CNS/Psy/Bi 102B	3-0-6	Brains, Minds, and Society	01	O'Doherty, J	MW 14:30 - 15:55	A	
			Bi/CNS/NB/Psy 150	4-0-6	Introduction to Neuroscience	01	Adolphs, R / Lester, H	R 13:00 - 13:55	A	G
MWF 10:00 - 10:55	A									
02	Adolphs, R / Lester, H	MWF 10:00 - 10:55				A	G			
R 15:00 - 15:55		A								
03	Adolphs, R / Lester, H	MWF 10:00 - 10:55	A	G						
R 16:00 - 16:55		A								

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BIOLOGY							
Bi/CNS/NB/Psy 150	4-0-6	Introduction to Neuroscience	04	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 19:00 - 19:55	A A	G
Bi/CNS/NB 152	2-0-4	Neural Circuits and Physiology of Appetite and Body Homeostasis	01	Oka, Y	TF 09:00 - 09:55	A	
Bi/CNS/NB 157	2-3-4	Comparative Nervous Systems	01	Allman, J	F 14:00 - 15:55	A	G
Bi 160	3-3-3	Molecular Basis of Animal Evolution <i>lab component not required spring term</i>	01	Parker, J	M 08:00 - 10:55	A	
CNS/Bi/Psy/NB 176	4-0-5	Cognition	01	Shimojo, S	WF 10:00 - 11:55	A	
Bi 189	2-0-4	The Cell Cycle <i>class cancelled</i>	01	Dunphy, W	A	A	
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation	01	Winfree, E	A	A	
BE/Bi 205	3-0-6	Deep Learning for Biological Data	01	Van Valen, D	MW 13:00 - 14:25	A	
Bi 214	3-0-6	Stem Cells and Hematopoiesis	01	Rothenberg, E	T 15:00 - 16:55 F 14:00 - 15:55	A A	
Bi/CNS/NB 220	2-0-4	Genetic Dissection of Neural Circuit Function	01	Anderson, D	R 15:00 - 17:55	A	
Bi/BE 222	2-0-4	The Structure of the Cytosol	01	Kennedy, M	W 19:00 - 20:55	A	
Ge/Bi 244	3-0-3	Paleobiology Seminar	01	Kirschvink, J	OM,M 16:30 - 16:55	A	
Bi 250B	3-0-6	Topics in Systems Biology <i>taught concurrently with BE 150</i>	01	Elowitz, M / Bois, J	MWF 11:00 - 11:55	A	
Bi/CNS/NB 250C	3-0-6	Topics in Systems Neuroscience	01	Siapas, A	W 14:00 - 16:55	A	

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BIOLOGY							
Psy/Bi/CNS 255	3-0-6	Topics in Emotion and Social Cognition	01	Mobbs, D	W 10:00 - 12:55	A	G
Bi 270C	2-0-4	Special Topics in Biology: Human Impacts by the Numbers <i>class cancelled</i>	01	Phillips, R	A	A	P
Bi 299	+	Graduate Research	01	Stathopoulos, A	A	A	P
			02	Baltimore, D	A	A	P
			03	Allman, J	A	A	P
			04	Andersen, R	A	A	P
			05	Anderson, D	A	A	P
			06	Mazmanian, S	A	A	P
			07	Clemons, W	A	A	P
			08	Elowitz, M	A	A	P
			09	Thomson, M	A	A	P
			10	Bjorkman, P	A	A	P
			11	Bronner Hansen, M	A	A	P
			12	Campbell, J	A	A	P
			13	Chan, D	A	A	P
			15	Deshaies, R	A	A	P
			16	Dickinson, M	A	A	P
			17	O'Doherty, J	A	A	P
			18	Dunphy, W	A	A	P
			19	Fraser, S	A	A	P
			20	Goddard, W	A	A	P
			21	Hay, B	A	A	P
			22	Kennedy, M	A	A	P
			23	Qian, L	A	A	P
			24	Pierce, N	A	A	P
			25	Burdick, J	A	A	P
			26	Tsao, D	A	A	P
			27	Orphan, V	A	A	P
			28	Mayo, S	A	A	P
			29	Meyerowitz, E	A	A	P

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BIOLOGY							
Bi 299	+	Graduate Research	30	Newman, D	A	A	P
			31	Guo, C	A	A	P
			32	Lois, C	A	A	P
			33	Heath, J	A	A	P
			34	Prober, D	A	A	P
			35	Varshavsky, A	A	A	P
			36	Kirschvink, J	A	A	P
			37	Rothenberg, E	A	A	P
			38	Shapiro, M	A	A	P
			39	Shimojo, S	A	A	P
			40	Lester, H	A	A	P
			41	Sternberg, P	A	A	P
			42	Dougherty, D	A	A	P
			43	Shan, S	A	A	P
			44	Winfrey, E	A	A	P
			45	Wold, B	A	A	P
			46	Zinn, K	A	A	P
			47	Burdick, J	A	A	P
			48	Jensen, G	A	A	P
			49	Leadbetter, J	A	A	P
			50	Elowitz, M	A	A	P
			51	Adolphs, R	A	A	P
			52	Cai, L	A	A	P
			53	Siapas, A	A	A	P
			54	Gharib, M	A	A	P
			55	Hsieh-Wilson, L	A	A	P
			56	Aravin, A	A	A	P
			57	Fejes Toth, K	A	A	P
			58	Tai, Y	A	A	P
			59	Murray, R	A	A	P
			60	Meister, M	A	A	P
			61	Arnold, F	A	A	P
			62	Gradinaru, V	A	A	P

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BIOLOGY							
Bi 299	+	Graduate Research	63	Scherer, A	A	A	P
			64	Guttman, M	A	A	P
			65	Goentoro, L	A	A	P
			66	Guttman, M	A	A	P
			67	Oka, Y	A	A	P
			68	Hsiao, E	A	A	P
			69	Ismagilov, R	A	A	P
			70	Hong, E	A	A	P
			71	Phillips, R	A	A	P
			72	Roukes, M	A	A	P
			73	Doyle, J	A	A	P
			74	Pachter, L	A	A	P
			75	Parker, J	A	A	P
			76	Voorhees, R	A	A	P
			77	Van Valen, D	A	A	P
			78	Wang, K	A	A	P
79	de Kleer, K	A	A	P			
80	Zernicka-Goetz, M	A	A	P			
BUSINESS, ECONOMICS, AND MANAGEMENT							
BEM/Ec/PS 080	1-0-0	Frontiers in Social Sciences	01	Cvitanic, J	M 12:00 - 12:55	A	P
BEM097	+	Undergraduate Research <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P
BEM104	3-0-6	Investments	01	Roll, R	TR 13:00 - 14:25	A	
BEM107	3-0-6	Corporate Finance	01	Ewens, M	TR 10:30 - 11:55	A	G
BEM108	3-0-6	Mathematical Models in Fintech	01	Cvitanic, J	MW 10:30 - 11:55	A	

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BUSINESS, ECONOMICS, AND MANAGEMENT							
BEM117	3-0-6	Behavioral Finance	01	Jin, J	MW 13:00 - 14:25	A	G
CHEMICAL ENGINEERING							
Ch/ChE 009	1-6-2	Chemical Synthesis and Characterization for Chemical Engineering <i>class cancelled</i>	01	Staff	A	A	
ChE063B	3-0-6	Chemical Engineering Thermodynamics	01	Ismagilov, R	TR 13:00 - 14:25	A	
ChE080	+	Undergraduate Research	01	Arnold, F	A	A	P
			03	Davis, M	A	A	P
			04	Giapis, K	A	A	P
			05	Lewis, N	A	A	P
			06	Haile, S	A	A	P
			07	Shapiro, M	A	A	P
			08	Brady, J	A	A	P
			09	Atwater, H	A	A	P
			10	Goddard, W	A	A	P
			11	Faber, K	A	A	P
			12	Heath, J	A	A	P
			13	Flagan, R	A	A	P
			14	Gavalas, G	A	A	P
			15	Hoelz, A	A	A	P
			16	Greer, J	A	A	P
			20	Kornfield, J	A	A	P
			21	Agapie, T	A	A	P
			34	Seinfeld, J	A	A	P
			36	Tirrell, D	A	A	P
			37	Ismagilov, R	A	A	P
			38	Daraio, C	A	A	P
ChE090B	0-4-5	Senior Thesis	01	Dickinson, M	A	A	
			02	Giapis, K	A	A	

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CHEMICAL ENGINEERING										
ChE090B	0-4-5	Senior Thesis	03	Seinfeld, J	A	A				
			04	Tirrell, D	A	A				
			06	Flagan, R	A	A				
			07	Gavalas, G	A	A				
			08	Davis, M	A	A				
			09	Haile, S	A	A				
			10	Arnold, F	A	A				
			11	Brady, J	A	A				
			12	Kornfield, J	A	A				
			13	Greer, J	A	A				
			14	Lewis, N	A	A				
			15	Grubbs, R	A	A				
			16	Mayo, S	A	A				
			17	Fu, G	A	A				
			18	Wang, Z	A	A				
			19	Cai, L	A	A				
			20	Atwater, H	A	A				
			21	Ismagilov, R	A	A				
			22	Cai, L / Arnold, F	A	A				
			ChE090C	+	Senior Thesis	01	Giapis, K	A	A	P
						02	Tirrell, D	A	A	P
						03	Kornfield, J	A	A	P
04	Cai, L / Arnold, F	A				A	P			
05	Lewis, N	A				A	P			
06	Flagan, R	A				A	P			
07	Mayo, S	A				A	P			
08	Ismagilov, R	A				A	P			
09	Seinfeld, J	A				A	P			
10	Wang, Z	A				A	P			
Ch/ChE 091	2-0-1	Scientific Writing	01	Weitekamp, D	M 14:00 - 15:55	A	G			

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CHEMICAL ENGINEERING							
ChE103C	3-0-6	Transport Phenomena	01	Shapiro, M / Kornfield, J	MWF 10:00 - 10:55	A	
ChE105	3-0-6	Dynamics and Control of Chemical Systems <i>taught concurrently with CDS110</i>	01	Seinfeld, J	MWF 13:00 - 13:55	A	G
ChE120	1-6-2	Optimal Design of Chemical Systems <i>If unable to register, please contact instructor.</i>	01	Vicic, M	A	A	
ChE130	1-5-3	Biomolecular Engineering Laboratory <i>Maximum enrollment: 14 students // If unable to register, please contact instructor.</i>	01	Vicic, M	A	A	
ChE142	1-0-8	Challenges in Data Science for Chemical Systems	01	Vicic, M	A	A	
ChE/Ch 148	3-0-6	Polymer Physics	01	Wang, Z	TR 10:30 - 11:55	A	
ChE151B	3-0-9	Physical and Chemical Rate Processes	01	Brady, J	MWF 09:00 - 09:55	A	G
ChE280	+	Chemical Engineering Research	01	Arnold, F	A	A	P
			02	Murray, R	A	A	P
			03	Atwater, H	A	A	P
			04	Haile, S	A	A	P
			05	Pierce, N	A	A	P
			06	Troian, S	A	A	P
			07	Brady, J	A	A	P
			08	Stoltz, B	A	A	P
			09	Ismagilov, R	A	A	P
			10	Davis, M	A	A	P
			11	Greer, J	A	A	P
			12	Dougherty, D	A	A	P
			13	Flagan, R	A	A	P
			14	Fraser, S	A	A	P
			15	Fultz, B	A	A	P
			16	Giapis, K	A	A	P

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CHEMICAL ENGINEERING							
ChE280	+	Chemical Engineering Research	17	Goddard, W	A	A	P
			18	Fultz, B	A	A	P
			19	Snyder, G	A	A	P
			20	Guttman, M	A	A	P
			21	Kornfield, J	A	A	P
			22	Miller, T	A	A	P
			23	Lewis, N	A	A	P
			24	Shapiro, M	A	A	P
			25	Elowitz, M	A	A	P
			26	Hoffmann, M	A	A	P
			27	See, K	A	A	P
			28	Robb, M	A	A	P
			29	Parker, C	A	A	P
			30	Wei, L	A	A	P
			31	Chan, G	A	A	P
			32	Pachter, L	A	A	P
			33	Wang, K	A	A	P
			34	Hadt, R	A	A	P
			36	Tirrell, D	A	A	P
			37	Wang, Z	A	A	P
40	Seinfeld, J	A	A	P			
41	Yung, Y	A	A	P			
42	Heath, J	A	A	P			
CHEMISTRY							
Ch 003A	1-3-2	Fundamental Techniques of Experimental Chemistry <i>All Ch 3a and Ch 3x students will be enrolled in Ch 3a with combined experiments. // Sec 8 - seniors only // Maximum enrollment: 8 students per section // Seniors who entered in 2017 must take course on Letter Grades, all others pass-fail</i>	01	Mendez, J	A T 09:00 - 10:55	A A	P
			02	Mendez, J	A T 13:00 - 14:55	A A	P
			03	Mendez, J	A T 16:00 - 17:55	A A	P
			04	Mendez, J	A W 13:00 - 14:55	A A	P

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Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme			
CHEMISTRY										
Ch 003A	1-3-2	Fundamental Techniques of Experimental Chemistry <i>All Ch 3a and Ch 3x students will be enrolled in Ch 3a with combined experiments. // Sec 8 - seniors only // Maximum enrollment: 8 students per section // Seniors who entered in 2017 must take course on Letter Grades, all others pass-fail</i>	05	Mendez, J	A W 16:00 - 17:55	A A	P			
			06	Mendez, J	A R 09:00 - 10:55	A A	P			
			07	Mendez, J	A R 16:00 - 17:55	A A	P			
			08	Mendez, J	A T 09:00 - 10:55	A A	P			
			09	Mendez, J	A T 16:00 - 17:55	A A	P			
			10	Mendez, J	A W 13:00 - 14:55	A A	P			
			11	Mendez, J	A W 16:00 - 17:55	A A	P			
			12	Mendez, J	A R 11:00 - 12:55	A A	P			
			Ch 003X	1-3-2	Experimental Methods in Solar Energy Conversion <i>Ch 3x is not offered but is combined with Ch 3a this term. All Ch 3a and Ch 3x students will be enrolled in Ch 3a with combined experiments.</i>	01	Staff	A	A	P
			Ch 004B	1-6-2	Synthesis and Analysis of Organic and Inorganic Compounds <i>class cancelled</i>	01	Staff	A	A	
			Ch 006A	1-5-3	Physical and Biophysical Chemistry Laboratory <i>Students are expected to attend one lab a week (4 hours sequential) tbd. Ch 21b is required.</i>	01	Okumura, M	OM,M 11:00 - 11:55 A	A A	
			Ch/ChE 009	1-6-2	Chemical Synthesis and Characterization for Chemical Engineering <i>class cancelled</i>	01	Staff	A	A	
Ch 010C	1-4-1	Frontiers in Chemistry <i>Must have instructor's permission prior to registering for course // open to freshmen and</i>	01	Hoelz, A	R 12:00 - 12:55	A	P			

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CHEMISTRY							
Ch 021C	3-0-6	Physical Chemistry	01	Beauchamp, J	MWF 13:00 - 13:55	A	G
Ch 041C	4-0-5	Organic Chemistry	01	Reisman, S	MWF 09:00 - 09:55 W 20:00 - 20:55	A A	
			02	Reisman, S	MWF 09:00 - 09:55 R 15:00 - 15:55	A A	
			03	Reisman, S	MWF 09:00 - 09:55	A	
					R 20:00 - 20:55	A	
Ch 080	+	Chemical Research	01	Arnold, F	A	A	P
			02	Dervan, P	A	A	P
			03	Hsieh-Wilson, L	A	A	P
			04	Beauchamp, J	A	A	P
			05	Chan, G	A	A	P
			06	Clemons, W	A	A	P
			07	Reisman, S	A	A	P
			08	Campbell, J	A	A	P
			09	Shan, S	A	A	P
			10	Rees, D	A	A	P
			11	Heath, J	A	A	P
			12	Agapie, T	A	A	P
			13	Davis, M	A	A	P
			14	Asimow, P	A	A	P
			15	Dougherty, D	A	A	P
			16	Goddard, W	A	A	P
			17	Gray, H	A	A	P
			18	Shapiro, M	A	A	P
			19	Shapiro, M	A	A	P
			20	Kornfield, J	A	A	P
			21	Yue, Y	A	A	P
			22	Fu, G	A	A	P
			23	Rossman, G	A	A	P
			24	Katz, N	A	A	P

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CHEMISTRY							
Ch 080	+	Chemical Research	25	Virgil, S	A	A	P
			26	Gao, W	A	A	P
			27	Okumura, M	A	A	P
			28	See, K	A	A	P
			29	Peters, J	A	A	P
			30	Blake, G	A	A	P
			31	Ondrus, A	A	A	P
			32	Wei, L	A	A	P
			33	Hoffmann, M	A	A	P
			34	Greer, J	A	A	P
			35	Stoltz, B	A	A	P
			36	Tirrell, D	A	A	P
			37	Grubbs, R	A	A	P
			38	Lewis, N	A	A	P
			39	Barton, J	A	A	P
			40	Hoelz, A	A	A	P
			41	Eiler, J	A	A	P
			42	Rossmann, G	A	A	P
			43	Blake, G	A	A	P
			44	Cushing, S	A	A	P
45	Miller, T	A	A	P			
Ch 081	+	Independent Reading in Chemistry	01	Stoltz, B	A	A	P
			02	Lewis, N	A	A	P
			03	Chandy, K	A	A	P
			04	Peters, J	A	A	P
			05	Adolphs, R	A	A	P
			06	Agapie, T	A	A	P
			17	Gray, H	A	A	P
Ch 082	+	Senior Thesis Research <i>9 units per term</i>	01	Rees, D / Agapie, T	A	A	P
			02	Hoelz, A / Agapie, T	A	A	P
			03	Grubbs, R / Agapie, T	A	A	P
			04	Gray, H / Agapie, T	A	A	P
			05	Agapie, T	A	A	P

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CHEMISTRY										
Ch 082	+	Senior Thesis Research <i>9 units per term</i>	06	Peters, J / Agapie, T	A	A	P			
			07	Stoltz, B / Agapie, T	A	A	P			
			08	Tirrell, D / Agapie, T	A	A	P			
			09	Agapie, T / Asimow, P	A	A	P			
			10	Agapie, T / Reisman, S	A	A	P			
			11	Rossman, G / Agapie, T	A	A	P			
			12	Dougherty, D / Agapie, T	A	A	P			
			13	Goddard, W / Agapie, T	A	A	P			
			14	Hsieh-Wilson, L / Agapie, T	A	A	P			
			15	Wei, L / Agapie, T	A	A	P			
			16	Chan, G / Agapie, T	A	A	P			
			17	Arnold, F / Agapie, T	A	A	P			
			18	Hadt, R / Agapie, T	A	A	P			
			19	Okumura, M / Agapie, T	A	A	P			
			Ch/ChE 091	2-0-1	Scientific Writing	01	Weitekamp, D	M 14:00 - 15:55	A	G
			Ch 101	1-0-2	Chemistry Tutorials	01	Stoltz, B / See, K	A	A	G
			Ch 102	4-0-5	Introduction to Inorganic Chemistry	01	See, K / Hadt, R	TR 10:30 - 11:55	151 CRL	
			Ch 120B	1-1-7	Nature of the Chemical Bond	01	Goddard, W	W 15:00 - 15:55	A	
			Ch 121A	3-0-6	Atomic-Level Simulations of Materials and Molecules	01	Goddard, W	MWF 14:00 - 14:55	A	
Ge/Ch 127	3-0-6	Nuclear Chemistry	01	Burnett, D	TR 14:30 - 15:55	A				
Ch 143	3-0-6	NMR Spectroscopy for Structural Identification	01	Virgil, S	MWF 11:00 - 11:55	A				

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CHEMISTRY							
ChE/Ch 148	3-0-6	Polymer Physics	01	Wang, Z	TR 10:30 - 11:55	A	
ESE/Ge/Ch 171	3-0-6	Atmospheric Chemistry I	01	Seinfeld, J / Wennberg, P	TR 13:00 - 14:25	A	
ESE/Ch 177	3-0-6	Environmental Physical Organic Chemistry Part II	01	Hoffmann, M	MWF 10:00 - 10:55	A	
Ch 180	+	Chemical Research	01	Agapie, T	A	A	P
BMB/Ch 202C	1-0-0	Biochemistry Seminar Course	01	Clemons, W	R 12:00 - 12:55	A	P
Ch 213C	1-0-11	Advanced Ligand Field Theory	01	Gray, H	F 13:00 - 13:55	A	G
Ch 226	3-0-6	Optical and Nonlinear Spectroscopy	01	Blake, G / Cushing, S	TR 13:00 - 14:25	A	
Ch 279	+	Rotations in Chemistry	01	Agapie, T	A	A	P
			02	Arnold, F	A	A	P
			03	Atwater, H	A	A	P
			04	Barton, J	A	A	P
			05	Beauchamp, J	A	A	P
			06	Bjorkman, P	A	A	P
			07	Blake, G	A	A	P
			08	Blanquart, G	A	A	P
			09	Campbell, J	A	A	P
			10	Chan, G	A	A	P
			11	Clemons, W	A	A	P
			12	Cushing, S	A	A	P
			13	Davis, M	A	A	P
			14	Dervan, P	A	A	P
			15	Dougherty, D	A	A	P
			16	Elowitz, M	A	A	P
			17	Fu, G	A	A	P

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CHEMISTRY							
Ch 279	+	Rotations in Chemistry	18	Goddard, W	A	A	P
			19	Gray, H	A	A	P
			20	Greer, J	A	A	P
			21	Grubbs, R	A	A	P
			22	Hadt, R	A	A	P
			23	Haile, S	A	A	P
			24	Hoelz, A	A	A	P
			25	Hoffmann, M	A	A	P
			26	Hsieh-Wilson, L	A	A	P
			27	Ismagilov, R	A	A	P
			28	Jensen, G	A	A	P
			29	Kornfield, J	A	A	P
			30	Lester, H	A	A	P
			31	Lewis, N	A	A	P
			32	Mayo, S	A	A	P
			33	Miller, T	A	A	P
			34	Newman, D	A	A	P
			35	Okumura, M	A	A	P
			36	Ondrus, A	A	A	P
			37	Peters, J	A	A	P
			38	Pierce, N	A	A	P
			39	Rees, D	A	A	P
			40	Reisman, S	A	A	P
			41	Robb, M	A	A	P
			43	See, K	A	A	P
			44	Seinfeld, J	A	A	P
			45	Shan, S	A	A	P
			46	Shapiro, M	A	A	P
			47	Sternberg, P	A	A	P
			48	Stoltz, B	A	A	P
			49	Tirrell, D	A	A	P
			50	Wang, Z	A	A	P
			51	Wei, L	A	A	P

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CHEMISTRY							
Ch 279	+	Rotations in Chemistry	52	Weitekamp, D	A	A	P
			53	Wennberg, P	A	A	P
Ch 280	+	Chemical Research	01	Arnold, F	A	A	P
			02	Agapie, T	A	A	P
			03	Barton, J	A	A	P
			04	Beauchamp, J	A	A	P
			05	Bercaw, J	A	A	P
			06	Blake, G	A	A	P
			07	Shan, S	A	A	P
			08	Bjorkman, P	A	A	P
			09	Cai, L	A	A	P
			10	Davis, M	A	A	P
			11	Dervan, P	A	A	P
			12	Dougherty, D	A	A	P
			13	Eiler, J	A	A	P
			14	Miller, T	A	A	P
			15	Giapis, K	A	A	P
			16	Goddard, W	A	A	P
			17	Gray, H	A	A	P
			18	Grubbs, R	A	A	P
			19	Hsieh-Wilson, L	A	A	P
			20	Kornfield, J	A	A	P
			21	Reisman, S	A	A	P
			22	Lewis, N	A	A	P
			23	Wang, Z	A	A	P
			24	Marcus, R	A	A	P
			25	Mayo, S	A	A	P
			26	Goentoro, L	A	A	P
			27	Okumura, M	A	A	P
			28	Clemons, W	A	A	P
			29	Peters, J	A	A	P
			30	Rees, D	A	A	P
			31	Ismagilov, R	A	A	P

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CHEMISTRY							
Ch 280	+	Chemical Research	32	Hoelz, A	A	A	P
			33	Haile, S	A	A	P
			34	Seinfeld, J	A	A	P
			35	Stoltz, B	A	A	P
			36	Tirrell, D	A	A	P
			37	Fu, G	A	A	P
			38	Weitekamp, D	A	A	P
			39	Chan, G	A	A	P
			40	Robb, M	A	A	P
			41	Atwater, H	A	A	P
			42	Pierce, N	A	A	P
			43	Hoffmann, M	A	A	P
			44	Heath, J	A	A	P
			45	Sternberg, P	A	A	P
			46	Adkins, J	A	A	P
			47	Lester, H	A	A	P
			48	Wennberg, P	A	A	P
			49	Campbell, J	A	A	P
			50	Hoffmann, M	A	A	P
			51	Wei, L	A	A	P
			52	Tirrell, D	A	A	P
			53	Deshaies, R	A	A	P
			54	Shapiro, M	A	A	P
			55	Jensen, G	A	A	P
			56	Newman, D	A	A	P
			57	Greer, J	A	A	P
			58	Blanquart, G	A	A	P
			59	Ondrus, A	A	A	P
			60	Yeh, N	A	A	P
			61	Asimow, P	A	A	P
			62	Elowitz, M	A	A	P
			63	See, K	A	A	P
			64	Tai, Y	A	A	P

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CHEMISTRY							
Ch 280	+	Chemical Research	65	Cushing, S	A	A	P
			66	Hadt, R	A	A	P
			67	Parker, J	A	A	P
			68	Voorhees, R	A	A	P
			69	Van Valen, D	A	A	P
			70	Faber, K	A	A	P
			71	Semlow, D	A	A	P
CIVIL ENGINEERING							
Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Pullin, D	MWF 10:00 - 10:55	A	P
Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	A	G
AM/CE/ME 150C	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	A	P
CE 200	+	Advanced Work in Civil Engineering	01	Staff	A	A	P
CE 201	3-0-6	Advanced Topics in Civil Engineering <i>taught concurrently with AM 201 and ME 201</i>	01	Andrade, J	TR 15:00 - 16:25	A	
CE 300	+	Research in Civil Engineering	01	Pellegrino, S	A	A	P
			04	Andrade, J	A	A	P
			05	Lapusta, N	A	A	P
			06	Asimaki, D	A	A	P
			07	Daraio, C	A	A	P
			08	Fu, X	A	A	P
COMPUTATION & NEURAL SYS							
CNS/Psy/Bi 102B	3-0-6	Brains, Minds, and Society	01	O'Doherty, J	MW 14:30 - 15:55	A	
EE/CNS/CS 148	3-0-6	Selected Topics in Computational Vision	01	Perona, P	TR 13:00 - 14:25	A	

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COMPUTATION & NEURAL SYS							
Bi/CNS/NB/Psy 150	4-0-6	Introduction to Neuroscience	01	Adolphs, R / Lester, H	R 13:00 - 13:55 MWF 10:00 - 10:55	A A	G
			02	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 15:00 - 15:55	A A	G
			03	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 16:00 - 16:55	A A	G
			04	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 19:00 - 19:55	A A	G
Bi/CNS/NB 152	2-0-4	Neural Circuits and Physiology of Appetite and Body Homeostasis	01	Oka, Y	TF 09:00 - 09:55	A	
CS/CNS/EE 156B	3-1-5	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	A	
Bi/CNS/NB 157	2-3-4	Comparative Nervous Systems	01	Allman, J	F 14:00 - 15:55	A	G
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Yue, Y	TR 14:30 - 15:55	A	
CS/CNS 174	3-6-3	Computer Graphics Projects	01	Barr, A	MWF 13:00 - 13:55	A	
CNS/Bi/Psy/NB 176	4-0-5	Cognition	01	Shimojo, S	WF 10:00 - 11:55	A	
CNS180	+	Research in Computation and Neural Systems	01	Anandkumar, A	A	A	P
			02	Anderson, D	A	A	P
			03	Pierce, N	A	A	P
			04	Andersen, R	A	A	P
			05	Burdick, J	A	A	P
			06	O'Doherty, J	A	A	P
			07	Tsao, D	A	A	P
			08	Lester, H	A	A	P
			09	Dickinson, M	A	A	P
			10	Elowitz, M	A	A	P
			11	Rutishauser, U	A	A	P

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COMPUTATION & NEURAL SYS							
CNS180	+	Research in Computation and Neural Systems	12	Murray, R	A	A	P
			13	Rutishauser, U	A	A	P
			14	Quartz, S	A	A	P
			15	Perona, P	A	A	P
			16	Allman, J	A	A	P
			17	Murray, R	A	A	P
			18	Shimojo, S	A	A	P
			19	Siapas, A	A	A	P
			20	Shapiro, M	A	A	P
			21	Winfree, E	A	A	P
			22	Wold, B	A	A	P
			23	Kennedy, M	A	A	P
			24	Adolphs, R	A	A	P
			25	Camerer, C	A	A	P
			26	Rangel, A	A	A	P
			27	Thomson, M	A	A	P
			28	Gradinaru, V	A	A	P
			29	Prober, D	A	A	P
			30	Yue, Y	A	A	P
			31	Meister, M	A	A	P
			32	Hong, E	A	A	P
			33	Ames, A	A	A	P
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation	01	Winfree, E	A	A	
Bi/CNS/NB 220	2-0-4	Genetic Dissection of Neural Circuit Function	01	Anderson, D	R 15:00 - 17:55	A	
Bi/CNS/NB 250C	3-0-6	Topics in Systems Neuroscience	01	Siapas, A	W 14:00 - 16:55	A	
Psy/Bi/CNS 255	3-0-6	Topics in Emotion and Social Cognition	01	Mobbs, D	W 10:00 - 12:55	A	G

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COMPUTATION & NEURAL SYS							
CNS280	+	Research in Computation and Neural Systems	01	Abu-Mostafa, Y	A	A	P
			02	Elowitz, M	A	A	P
			03	Burdick, J	A	A	P
			04	Andersen, R	A	A	P
			05	Bruck, J	A	A	P
			06	Hoffmann, M	A	A	P
			07	Tsao, D	A	A	P
			08	Murray, R	A	A	P
			09	Meister, M	A	A	P
			11	Camerer, C	A	A	P
			12	Perona, P	A	A	P
			13	Adolphs, R	A	A	P
			14	Scherer, A	A	A	P
			15	Shimojo, S	A	A	P
			16	Siapas, A	A	A	P
			17	Sternberg, P	A	A	P
			18	Wold, B	A	A	P
			19	Winfrey, E	A	A	P
			20	Lester, H	A	A	P
			21	Dickinson, M	A	A	P
			22	Quartz, S	A	A	P
			23	O'Doherty, J	A	A	P
			24	Allman, J	A	A	P
			25	Oka, Y	A	A	P
			26	Rangel, A	A	A	P
			27	Gradinaru, V	A	A	P
			28	Lois, C	A	A	P
			29	Thomson, M	A	A	P
			30	Mobbs, D	A	A	P
			31	Rutishauser, U	A	A	P
			SS/Psy/CNS 285	3-0-0	Topics in Social, Cognitive, and Decision Sciences	01	Pomatto, L

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COMPUTER SCIENCE							
CS 003	1-6-2	Introduction to Software Design <i>maximum enrollment: 25 students per section</i>	01	Blank, A	M 13:00 - 13:55 T 13:00 - 13:55	A A	G
			02	Blank, A	M 13:00 - 13:55 T 14:00 - 14:55	A A	G
			03	Blank, A	M 13:00 - 13:55 T 15:00 - 15:55	A A	G
			04	Blank, A	M 13:00 - 13:55 T 16:00 - 16:55	A A	G
			05	Blank, A	M 13:00 - 13:55 T 17:00 - 17:55	A A	G
Ma/CS 006C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma 106c</i>	01	Kechris, A	TR 13:00 - 14:25	A	
EE/CS 010B	2-3-1	Introduction to Digital Logic and Embedded Systems	01	George, G	TF 15:00 - 15:55	A	
CS 038	3-0-6	Algorithms	01	Schroeder, P	TR 10:30 - 11:55	A	
CS 042	2-2-2	Computer Science Education in K-14 Settings	01	Ralph, C / Wierman, A	MWF 14:00 - 14:55	A	P
CS 080C	+	Undergraduate Thesis	01	Schroeder, P	A	A	P
			02	Murray, R	A	A	P
			03	Winfrey, E	A	A	P
			04	Barr, A	A	A	P
			05	Katz, N	A	A	P
			06	Perona, P	A	A	P
			07	Yue, Y	A	A	P
			08	Bruck, J	A	A	P
			09	Desbrun, M	A	A	P
			10	Schulman, L	A	A	P
			11	Umans, C	A	A	P
			12	Bouman, K	A	A	P
			13	Wierman, A	A	A	P

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COMPUTER SCIENCE							
CS 080C	+	Undergraduate Thesis	14	Chung, S	A	A	P
CS 081C	+	Undergraduate Projects in Computer Science	01	Schulman, L	A	A	P
			02	Barr, A	A	A	P
			03	Chandy, K	A	A	P
			04	Desbrun, M	A	A	P
			05	Perona, P	A	A	P
			06	Low, S	A	A	P
			07	Vanier, M	A	A	P
			08	Murray, R	A	A	P
			09	Winfrey, E	A	A	P
			10	Wierman, A	A	A	P
			11	Umans, C	A	A	P
			12	Adolphs, R	A	A	P
			13	Pinkston, D	A	A	P
			14	Burdick, J	A	A	P
			15	Plott, C	A	A	P
			16	Mahabal, A	A	A	P
			17	Yue, Y	A	A	P
			18	George, G	A	A	P
			19	Abu-Mostafa, Y	A	A	P
			20	Schroeder, P	A	A	P
			21	Djorgovski, S	A	A	P
			22	Stalzer, M	A	A	P
			23	Vidick, T	A	A	P
			24	Hajimiri, S	A	A	P
			25	Ralph, C	A	A	P
			26	Rangel, A	A	A	P
			27	Alvarez, R	A	A	P
			28	Bunn, J	A	A	P
			29	Thomson, M	A	A	P
			30	Chung, S	A	A	P
			31	Lombeyda, S	A	A	P

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COMPUTER SCIENCE							
CS 081C	+	Undergraduate Projects in Computer Science	32	Blank, A	A	A	P
			33	Anandkumar, A	A	A	P
			34	Van Valen, D	A	A	P
			35	Tamuz, O	A	A	P
			36	Bouman, K	A	A	P
			37	Pachter, L	A	A	P
			38	Sternberg, P	A	A	P
CS 090	+	Undergraduate Reading in Computer Science	01	Winfree, E	A	A	P
			02	Barr, A	A	A	P
			03	Low, S	A	A	P
			04	Umans, C	A	A	P
			05	Bruck, J	A	A	P
			06	Pinkston, D	A	A	P
			07	Desbrun, M	A	A	P
			08	Arnold, F	A	A	P
			09	Schulman, L	A	A	P
			10	Perona, P	A	A	P
			11	Schroeder, P	A	A	P
			12	Wierman, A	A	A	P
			13	Yue, Y	A	A	P
			14	Abu-Mostafa, Y	A	A	P
CS 101	+	Special Topics in Computer Science <i>Section 1: Web Development (9 units) // Section 2: Rust Programming Language (3 units, pass-fail only, max enroll: 10 students) // Section 3: Speculative Algorithm Design (9 or 12 units, closed to enrollment)</i>	01	Hovik, M	TR 14:30 - 15:55	A	
			02	Vanier, M	T 16:00 - 16:55	A	
			03	Ralph, C / Mushkin, H	A	A	
CS 102C	+	Seminar in Computer Science	01	Staff	A	A	

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COMPUTER SCIENCE							
CS 103C	+	Reading in Computer Science	01	Staff	A	A	P
Ma/CS 106C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma/CS 006c</i>	01	Kechris, A	TR 13:00 - 14:25	A	
CS 115	3-4-2	Functional Programming	01	Vanier, M	MWF 14:00 - 14:55	A	
Ma/CS 117C	3-0-6	Computability Theory	01	Vidnyanszky, Z	TR 13:00 - 14:25	A	
EE/CS 119C	3-3-3	Advanced Digital Systems Design	01	George, G	OM,M 16:00 - 16:55	A	
CS 124	3-6-3	Operating Systems	01	Pinkston, D	MWF 13:00 - 13:55	A	
EE/CS/MedE 125	3-6-0	Digital Electronics and Design with FPGAs and VHDL	01	Pedroni, V	OM,T 16:00 - 16:55	A	
ME/CS/EE 129	3-6-0	Experimental Robotics	01	Niemeyer, G	MWF 15:00 - 15:55	A	
CS 131	3-0-6	Programming Languages <i>maximum enrollment: 30 students // CS 4 (in OCaml) is a hard prerequisite (i.e. CS 4 starting in Winter 2016) // CS majors get top priority</i>	01	Vanier, M	MWF 15:00 - 15:55	A	
ME/CS/EE 134	3-6-0	Robotic Systems <i>class cancelled</i>	01	Niemeyer, G	A	A	
CS 137	2-9-1	Algorithms in the Real World	01	Blank, A	TR 13:00 - 14:25	A	
CS 138	3-0-6	Computer Algorithms	01	Schroeder, P	TR 10:30 - 11:55	A	
CS/EE 145	0-0-9	Projects in Networking	01	Wierman, A	OM,M 13:00 - 13:55	A	

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COMPUTER SCIENCE							
CS/EE 146	3-3-3	Control and Optimization of Networks	01	Low, S	MWF 14:00 - 14:55	A	
EE/CNS/CS 148	3-0-6	Selected Topics in Computational Vision	01	Perona, P	TR 13:00 - 14:25	A	
CS/IDS 150B	3-0-6	Probability and Algorithms	01	Schulman, L	MWF 10:00 - 10:55	A	
CS 151	3-0-9	Complexity Theory	01	Umans, C	TR 13:00 - 14:25	A	
CS/CNS/EE 156B	3-1-5	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	A	
IDS/ACM/CS 157	3-2-4	Statistical Inference	01	Zuev, K	TR 09:00 - 10:25	A	
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Yue, Y	TR 14:30 - 15:55	A	
CMS/CS/EE 166	3-3-6	Computational Cameras	01	Bouman, K	TR 10:30 - 11:55	A	
CS/CNS 174	3-6-3	Computer Graphics Projects	01	Barr, A	MWF 13:00 - 13:55	A	
CS 179	3-3-3	GPU Programming	01	Barr, A	MWF 15:00 - 15:55	A	
CS 180	+	Master's Thesis Research	01	Abu-Mostafa, Y	A	A	P
			02	Desbrun, M	A	A	P
			03	Chandy, K	A	A	P
			04	Wierman, A	A	A	P
			05	Perona, P	A	A	P
			07	Low, S	A	A	P
			08	Martin, A	A	A	P
			09	Kitaev, A	A	A	P
			11	Schroeder, P	A	A	P

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COMPUTER SCIENCE							
CS 180	+	Master's Thesis Research	13	Winfree, E	A	A	P
			14	Umans, C	A	A	P
			15	Wold, B	A	A	P
			16	Siapas, A	A	A	P
			17	Ligett, K	A	A	P
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation	01	Winfree, E	A	A	
BE/CS 196B	2-8-2	Design and Construction of Programmable Molecular Systems	01	Qian, L	A	A	
CS 280	+	Research in Computer Science	01	Abu-Mostafa, Y	A	A	P
			02	Barr, A	A	A	P
			03	Cvitanić, J	A	A	P
			04	Umans, C	A	A	P
			05	Desbrun, M	A	A	P
			06	Winfree, E	A	A	P
			07	Low, S	A	A	P
			08	Martin, A	A	A	P
			09	Chandy, K	A	A	P
			10	Perona, P	A	A	P
			11	Schroeder, P	A	A	P
			12	Ligett, K	A	A	P
			13	Kitaev, A	A	A	P
			14	Wierman, A	A	A	P
			15	Winfree, E	A	A	P
			16	Doyle, J	A	A	P
			17	Vidick, T	A	A	P
			18	Yue, Y	A	A	P
CS 287	+	Center for the Mathematics of Information Seminar	01	Staff	T 16:00 - 16:55	A	P
COMPUTING AND MATHEMATICAL SCIENCES							

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COMPUTING AND MATHEMATICAL SCIENCES							
CMS/CS/EE 166	3-3-6	Computational Cameras	01	Bouman, K	TR 10:30 - 11:55	A	
CMS290C	1-0-0	Computing and Mathematical Sciences Colloquium	01	Hou, Y	M 16:00 - 16:55	A	P
CMS300	+	Research in Computing and Mathematical Sciences	01	Wierman, A	A	A	P
			02	Vidick, T	A	A	P
			03	Beck, J	A	A	P
			04	Burdick, J	A	A	P
			05	Doyle, J	A	A	P
			06	Murray, R	A	A	P
			07	Owhadi, H	A	A	P
			08	Barr, A	A	A	P
			09	Chandrasekaran, V	A	A	P
			10	Desbrun, M	A	A	P
			11	Low, S	A	A	P
			12	Perona, P	A	A	P
			13	Schroeder, P	A	A	P
			14	Schulman, L	A	A	P
			15	Umans, C	A	A	P
			16	Winfrey, E	A	A	P
			17	Yue, Y	A	A	P
			18	Pachter, L	A	A	P
			19	Anandkumar, A	A	A	P
			20	Thomson, M	A	A	P
			21	Stuart, A	A	A	P
			22	Van Valen, D	A	A	P
			23	Bouman, K	A	A	P
			24	Bruck, J	A	A	P
CONTROL & DYNAMICAL SYSTEMS							
CDS090C	0-0-9	Senior Thesis in Control & Dynamical Systems	01	Burdick, J	A	A	
			02	Chung, S	A	A	

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CONTROL & DYNAMICAL SYSTEMS							
CDS090C	0-0-9	Senior Thesis in Control & Dynamical Systems	03	Murray, R	A	A	
CDS110	3-3-3	Introduction to Feedback Control Systems <i>taught concurrently with ChE105</i>	01	Seinfeld, J	MWF 13:00 - 13:55	A	G
CDS141	3-2-4	Network Control Systems	01	Doyle, J	TR 13:00 - 14:25	A	P
CDS190	+	Independent Work in Control and Dynamical Systems	01	Murray, R	A	A	P
CDS233	3-0-6	Nonlinear Control	01	Ames, A	MWF 11:00 - 12:25	A	
CDS244	2-0-2	System Identification	01	Lavretsky, E	F 10:00 - 11:55	A	P
CDS300C	+	Research in Control and Dynamical Systems	01	Burdick, J	A	A	P
			02	Doyle, J	A	A	P
			03	Goentoro, L	A	A	P
			04	Beck, J	A	A	P
			05	Dickinson, M	A	A	P
			06	Murray, R	A	A	P
			07	Owhadi, H	A	A	P
			08	Quartz, S	A	A	P
			09	Elowitz, M	A	A	P
			11	Desbrun, M	A	A	P
			12	Ortiz, M	A	A	P
			13	Adolphs, R	A	A	P
			14	Siapas, A	A	A	P
			16	Ames, A	A	A	P
			17	Chung, S	A	A	P
ECONOMICS							
BEM/Ec/PS 080	1-0-0	Frontiers in Social Sciences	01	Cvitanic, J	M 12:00 - 12:55	A	P

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ECONOMICS							
Ec 097	+	Undergraduate Research	01	Echenique, F	A	A	P
		<i>Instructor permission required prior to registering</i>	02	Camerer, C	A	A	P
Ec 098C	+	Senior Research and Thesis	01	Camerer, C	A	A	P
		<i>Instructor permission required prior to registering</i>	02	Agranov, M	A	A	P
Ec 117	3-0-6	Matching Markets	01	Pomatto, L	MW 09:00 - 10:25	A	G
Ec 136	3-0-6	Behavioral Decision Theory	01	Sprenger, C	TR 14:30 - 15:55	A	
Ec/PS 160C	3-3-3	Laboratory Experiments in the Social Sciences <i>Taught concurrently with SS 260 // Completion of Ec/PS 160AB required.//Maximum enrollment: 10 students</i>	01	Plott, C	TR 09:00 - 10:25	A	G
PS/Ec 172	3-0-6	Game Theory	01	Tamuz, O	TR 13:00 - 14:25	A	
ELECTRICAL ENGINEERING							
EE 001	3-0-6	The Science of Data, Signals, and Information	01	Vaidyanathan, P	TR 14:30 - 15:55	A	
FS/EE 005	1-5-0	Freshman Seminar: Introduction to Waves <i>maximum enrollment: 18 students // see course syllabus link for class description and experiments lined up</i>	01	Yang, C	T 10:30 - 11:25	A	P
EE/CS 010B	2-3-1	Introduction to Digital Logic and Embedded Systems	01	George, G	TF 15:00 - 15:55	A	
EE 045	3-3-6	Electronics Systems and Laboratory	01	Emami, A	TR 09:00 - 10:25	A	
EE 080C	+	Senior Thesis	01	Vaidyanathan, P	A	A	P
			02	Scherer, A	A	A	P
			03	Hajimiri, S	A	A	P

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ELECTRICAL ENGINEERING										
EE 080C	+	Senior Thesis	04	Hassibi, B	A	A	P			
			05	Tai, Y	A	A	P			
			06	Effros, M	A	A	P			
			07	Doyle, J	A	A	P			
			08	Abbott, R	A	A	P			
			09	Emami, A	A	A	P			
			10	George, G	A	A	P			
			11	Choo, H	A	A	P			
			12	Van Valen, D	A	A	P			
			EE 090	1-8-0	Analog Electronics Project Laboratory	01	Kalantar Ohanian, R	OM,T 17:00 - 17:55	A	G
			EE 099	+	Advanced Work in Electrical Engineering	01	George, G	A	A	P
						02	Perona, P	A	A	P
03	Scherer, A	A				A	P			
04	Meyerowitz, E	A				A	P			
05	Marandi, A	A				A	P			
06	Murray, R	A				A	P			
07	Low, S	A				A	P			
08	Yang, C	A				A	P			
09	Martin, A	A				A	P			
10	Chandy, K	A				A	P			
11	Tai, Y	A				A	P			
12	Hajimiri, S	A				A	P			
13	Emami, A	A				A	P			
14	Gharib, M	A				A	P			
15	Yariv, A	A				A	P			
16	Bruck, J	A				A	P			
17	Doyle, J	A				A	P			
18	Atwater, H	A				A	P			
19	Effros, M	A				A	P			
EE 105C	1-0-0	Electrical Engineering Seminar	01	Emami, A	A	A	P			

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ELECTRICAL ENGINEERING							
APh/EE 109	0-6-3	Introduction to the Micro/Nanofabrication Lab <i>class cancelled</i>	01	Staff	A	A	
EE 110C	3-4-2	Embedded Systems Design Laboratory	01	George, G	OM,T 04:00 - 04:55	A	
EE 113	3-3-3	Feedback and Control Circuits	01	George, G	TF 13:00 - 14:25	A	
EE/MedE 114B	4-0-8	Analog Circuit Design	01	Hajimiri, S	TR 09:00 - 10:55	A	
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	A	P
EE/CS 119C	3-3-3	Advanced Digital Systems Design	01	George, G	OM,M 16:00 - 16:55	A	
EE/MedE 124	3-0-6	Mixed-mode Integrated Circuits <i>class cancelled</i>	01	Staff	A	A	
EE/CS/MedE 125	3-6-0	Digital Electronics and Design with FPGAs and VHDL	01	Pedroni, V	OM,T 16:00 - 16:55	A	
ME/CS/EE 129	3-6-0	Experimental Robotics	01	Niemeyer, G	MWF 15:00 - 15:55	A	
ME/CS/EE 134	3-6-0	Robotic Systems <i>class cancelled</i>	01	Niemeyer, G	A	A	
CS/EE 145	0-0-9	Projects in Networking	01	Wierman, A	OM,M 13:00 - 13:55	A	
CS/EE 146	3-3-3	Control and Optimization of Networks	01	Low, S	MWF 14:00 - 14:55	A	
EE/CNS/CS 148	3-0-6	Selected Topics in Computational Vision	01	Perona, P	TR 13:00 - 14:25	A	
EE 151	3-0-6	Electromagnetic Engineering	01	Yang, C	TR 13:00 - 14:25	A	

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ELECTRICAL ENGINEERING							
EE 153	3-2-7	Microwave Circuits and Antennas	01	Antsos, D	T 15:00 - 16:55 R 15:00 - 15:55	A A	
CS/CNS/EE 156B	3-1-5	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	A	
Ge/EE/ESE 157C	3-3-3	Remote Sensing for Environmental and Geological Applications	011	Ehlmann, B	TR 09:00 - 10:25	A	
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Yue, Y	TR 14:30 - 15:55	A	
CMS/CS/EE 166	3-3-6	Computational Cameras	01	Bouman, K	TR 10:30 - 11:55	A	
ACM/EE/IDS 170	3-0-9	Mathematics of Signal Processing	01	Hassibi, B	TR 13:00 - 14:25	A	
APh/EE 183	3-0-6	Physics of Semiconductors and Semiconductor Devices	01	Nad Perge, S	TR 13:00 - 14:25	A	
BE/EE/MedE 189A	3-6-3	Design and Construction of Biodevices <i>maximum enrollment: 24 students</i>	01	Yang, C	TR 14:30 - 15:55	A	
BE/EE/MedE 189B	0-9-0	Design and Construction of Biodevices	01	Yang, C	TR 14:30 - 15:55	A	
MedE/EE 268	4-0-5	Medical Imaging	01	Wang, L	WF 15:30 - 17:25	A	
EE 291	+	Advanced Work in Electrical Engineering	01	Atwater, H	A	A	P
			02	Wang, L	A	A	P
			03	Bruck, J	A	A	P
			04	Burdick, J	A	A	P
			05	Abu-Mostafa, Y	A	A	P
			06	Doyle, J	A	A	P
			07	Effros, M	A	A	P
			08	Heath, J	A	A	P
			09	George, G	A	A	P

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ELECTRICAL ENGINEERING							
EE 291	+	Advanced Work in Electrical Engineering	10	Weinreb, S	A	A	P
			11	Hajimiri, S	A	A	P
			12	Hassibi, B	A	A	P
			13	Campbell, J	A	A	P
			14	Low, S	A	A	P
			15	Phillips, R	A	A	P
			16	Choo, H	A	A	P
			17	Murray, R	A	A	P
			18	Perona, P	A	A	P
			19	Vahala, K	A	A	P
			20	Gharib, M	A	A	P
			21	Psaltis, D	A	A	P
			22	Haile, S	A	A	P
			23	Quartz, S	A	A	P
			24	Roukes, M	A	A	P
			25	Tsao, D	A	A	P
			26	Scherer, A	A	A	P
			27	Cvitanić, J	A	A	P
			28	Tai, Y	A	A	P
			29	Vaidyanathan, P	A	A	P
			30	Yariv, A	A	A	P
			31	Hoffmann, M	A	A	P
			32	Yang, C	A	A	P
			33	Chandrasekaran, V	A	A	P
			34	Martin, A	A	A	P
			35	Avouac, J	A	A	P
			36	Bridges, W	A	A	P
			37	Zmuidzinas, J	A	A	P
			38	Emami, A	A	A	P
			39	Painter, O	A	A	P
			40	Faraon, A	A	A	P
			41	Pellegrino, S	A	A	P
			42	Hallinan, G	A	A	P

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ELECTRICAL ENGINEERING							
EE 291	+	Advanced Work in Electrical Engineering	43	Lahouti, F	A	A	P
			44	Minnich, A	A	A	P
			45	Kostina, V	A	A	P
			47	Yue, Y	A	A	P
			48	Shapiro, M	A	A	P
			49	Yeh, N	A	A	P
			50	Marandi, A	A	A	P
			51	Anderson, D	A	A	P
			52	Mirhosseini Niri, S	A	A	P
ENGINEERING							
E 100	0-0-0	Special Topics in Engineering & Applied Science: Careers in STEAM <i>(1-0-0) units // taught concurrently with Hum 75</i>	01	Mushkin, H	R 12:00 - 12:55	A	P
E 100	0-0-0	Special Topics in Engineering & Applied Science: Deep Space Operations <i>3 units</i>	02	Ehlmann, B	TR 14:00 - 14:55	A	P
E 100	0-0-0	Special Topics in Engineering & Applied Science: Electrodynamical Dust Shielding for Lunar Exploration <i>6 units (2-0-4) // OM Tuesday 3/30/21 2-3 PM PST</i>	03	Chung, S	OM,T 14:00 - 14:55	A	
E/SEC 102	3-0-6	Scientific and Technology Entrepreneurship <i>maximum enrollment: 40 students // juniors and above only</i>	01	Wilson, N	F 13:00 - 15:55	A	G
E 110	2-0-1	Principles of University Teaching and Learning in STEM <i>maximum enrollment: 20 students // open to upperclass undergrads and graduate students only</i>	01	Horii, C	W 10:00 - 11:55	A	P
ENGLISH							

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ENGLISH							
Hum/En 021	3-0-6	Monsters and Marvels <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Jahner, J	TR 14:30 - 15:55	A	
Hum/En 022	3-0-6	Inequality <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Haugen, K	R 19:00 - 21:55	A	
Hum/En 023	3-0-6	Literature and Medicine <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Gilmore, D	TR 14:30 - 15:55	A	
Hum/En 026	3-0-6	What Is Imagination? <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Holland, J	TR 09:00 - 10:25	A	
Hum/En 027	3-0-6	Literature and the Problem of Belief <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Koch, J	TR 09:00 - 10:25	A	
En/Wr 084	3-0-6	Communicating Science to Non-Experts <i>maximum enrollment: 15 students // graduate</i> <i>students can only enroll with instructor's</i> <i>permission</i>	01	Hall, S	TR 13:00 - 14:25	A	
En 085	3-0-6	Poetry Writing <i>maximum enrollment: 12 students</i>	01	Factor, J	TR 13:00 - 14:25	A	
En 089	3-0-6	Writing the News - Journalistic Writing <i>class cancelled</i>	01	Kipling, R	T 19:00 - 21:55	A	
En 098	+	Reading in English <i>Instructor permission required prior to</i> <i>registering</i>	01	Staff	A	A	P
En 099B	1-0-8	Senior Tutorial for English Majors <i>Instructor permission required prior to</i> <i>registering</i>	01 02	Staff Weinstein, C	A A	A A	G G
En 106	3-0-6	Poetry and the Project of Justice <i>maximum enrollment: 15 students</i>	01	Jahner, J	TR 10:30 - 11:55	A	

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ENGLISH							
En 123	3-0-6	The 19th-Century English Novel <i>maximum enrollment: 20 students</i>	01	Gilmore, D	TR 10:30 - 11:55	A	
En 137	3-0-6	African American Literature <i>class cancelled</i>	01	Weinstein, C	A	A	G
En 151	3-0-6	Keeping Time <i>maximum enrollment: 15 students</i>	01	Holland, J	TR 13:00 - 14:25	A	
En/H 193	3-0-6	Cervantes, Truth or Dare: Don Quixote in an Age of Empire <i>maximum enrollment: 15 students</i>	01	Wey-Gomez, N	TR 13:00 - 14:25	A	
ENGLISH AS A SECOND LANGUAGE							
ESL/Wr 107	3-0-3	Graduate Writing Seminar <i>maximum enrollment: 15 students</i>	01	Daley, C	MW 16:00 - 17:25	A	P
ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE001	3-0-6	Earth's Climate <i>maximum enrollment: 30 students</i>	01	Wennberg, P	MWF 14:00 - 14:55	A	
ESE090	+	Undergraduate Laboratory Research in Environmental Science and Engineering	01	Newman, D	A	A	P
			02	Sessions, A	A	A	P
			03	Thompson, A	A	A	P
			04	Hoffmann, M	A	A	P
			05	Bordoni, S	A	A	P
			06	Leadbetter, J	A	A	P
			07	Adkins, J	A	A	P
			08	Flagan, R	A	A	P
			09	Frankenberg, C	A	A	P
ESE100	+	Special Problems in Environmental Science and Engineering <i>up to 12 units by arrangement</i>	01	Adkins, J	A	A	P
			02	Flagan, R	A	A	P
			03	Sessions, A	A	A	P
			04	Hoffmann, M	A	A	P
			05	Thompson, A	A	A	P
			06	Kornfield, J / Diallo, M	A	A	P

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ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE100	+	Special Problems in Environmental Science and Engineering <i>up to 12 units by arrangement</i>	07	Diallo, M	A	A	P
			08	Yung, Y	A	A	P
			09	Seinfeld, J	A	A	P
			10	Wennberg, P	A	A	P
			11	Diallo, M / Kornfield, J	A	A	P
			12	Schneider, T	A	A	P
			13	Leadbetter, J	A	A	P
			14	Fischer, W	A	A	P
			15	Lamb, M	A	A	P
ESE106	+	Research in Environmental Science and Engineering	01	Adkins, J	A	A	P
			02	Blake, G	A	A	P
			03	Bordoni, S	A	A	P
			04	Eiler, J	A	A	P
			05	Flagan, R	A	A	P
			06	Hoffmann, M	A	A	P
			07	Ingersoll, A	A	A	P
			08	Lamb, M	A	A	P
			09	Leadbetter, J	A	A	P
			10	Newman, D	A	A	P
			11	Okumura, M	A	A	P
			12	Orphan, V	A	A	P
			13	Schneider, T	A	A	P
			14	Seinfeld, J	A	A	P
			15	Sessions, A	A	A	P
			16	Wennberg, P	A	A	P
			17	Yung, Y	A	A	P
			18	Thompson, A	A	A	P
			19	Frankenberg, C	A	A	P
			20	Callies, J	A	A	P
ESE110C	1-0-0	Seminar in Environmental Science and Engineering	01	Callies, J	W 16:00 - 16:55	A	P

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ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE131	3-0-6	Ocean Dynamics	01	Callies, J / Thompson, A	MWF 13:00 - 13:55	A	
ESE132	3-0-6	Tropical Atmosphere Dynamics	01	Schneider, T	TR 09:00 - 10:25	A	
ESE/Ge 142	3-0-6	Aquatic Chemistry of Natural Waters	01	Adkins, J	MWF 13:00 - 13:55	A	
Ge/ESE 143	3-2-4	Organic Geochemistry	01	Sessions, A	MWF 11:00 - 11:55	A	
ESE144	3-0-6	Climate From Space	01	Teixeira, J / Thompson, A	TR 10:30 - 11:55	A	
Ge/ESE 150	3-0-6	Planetary Atmospheres	01	Knutson, H	MWF 14:00 - 14:55	A	
Ge/EE/ESE 157C	3-3-3	Remote Sensing for Environmental and Geological Applications	011	Ehlmann, B	TR 09:00 - 10:25	A	
ESE/Ge/Ch 171	3-0-6	Atmospheric Chemistry I	01	Seinfeld, J / Wennberg, P	TR 13:00 - 14:25	A	
ESE/Ch 177	3-0-6	Environmental Physical Organic Chemistry Part II	01	Hoffmann, M	MWF 10:00 - 10:55	A	
ESE300	+	Thesis Research	01	Adkins, J	A	A	P
			02	Sessions, A	A	A	P
			03	Okumura, M	A	A	P
			04	Hoffmann, M	A	A	P
			05	Ingersoll, A	A	A	P
			06	Leadbetter, J	A	A	P
			07	Flagan, R	A	A	P
			08	Orphan, V	A	A	P
			09	Seinfeld, J	A	A	P
			10	Wennberg, P	A	A	P
			11	Yung, Y	A	A	P
			12	Schneider, T	A	A	P

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ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE300	+	Thesis Research	13	Bordoni, S	A	A	P
			14	Thompson, A	A	A	P
			15	Callies, J	A	A	P
			16	Frankenberg, C	A	A	P
FRESHMAN SEMINARS							
FS/EE 005	1-5-0	Freshman Seminar: Introduction to Waves <i>maximum enrollment: 18 students // see course syllabus link for class description and experiments lined up</i>	01	Yang, C	T 10:30 - 11:25	A	P
FS/Ph 011C	2-0-4	Freshman Seminar: Beyond Physics	01	Phillips, R	A	A	P
GEOLOGY							
Ge 001	3-3-3	Earth and Environment <i>Field Trip Dates: TBD // Labs: TBD</i>	01	Asimow, P	MWF 14:00 - 14:55	A	G
Ge/Ay 011C	3-0-6	Introduction to Earth and Planetary Sciences: Planetary Sciences <i>Taught concurrently with Ge 103</i>	01	Ingersoll, A	TR 13:00 - 14:25	A	
Ge 040	+	Special Problems for Undergraduates	01	Kirschvink, J	A	A	P
			02	Knutson, H	A	A	P
			03	Lamb, M	A	A	P
			04	Adkins, J	A	A	P
			05	Rossman, G	A	A	P
			06	Ingersoll, A	A	A	P
			07	Asimow, P	A	A	P
			08	Clayton, R	A	A	P
			09	Sessions, A	A	A	P
			10	Yung, Y	A	A	P
			11	Eiler, J	A	A	P
			12	Jackson, J	A	A	P
			13	Brown, M	A	A	P
			14	Fischer, W	A	A	P

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GEOLOGY							
Ge 040	+	Special Problems for Undergraduates	15	Orphan, V	A	A	P
			16	Ehlmann, B	A	A	P
			17	de Kleer, K	A	A	P
Ge 041C	+	Undergraduate Research and Bachelor's Thesis	01	Grotzinger, J	A	A	P
			02	Newman, D	A	A	P
			03	Kirschvink, J	A	A	P
			04	Stock, J	A	A	P
			05	Ingersoll, A	A	A	P
			06	Orphan, V	A	A	P
			07	Fischer, W	A	A	P
			08	Jackson, J	A	A	P
			09	Sessions, A	A	A	P
			10	Leadbetter, J	A	A	P
			11	Asimow, P	A	A	P
			12	Rossmann, G	A	A	P
			13	Adkins, J	A	A	P
			14	Lamb, M	A	A	P
			15	Ehlmann, B	A	A	P
			16	Simons, M	A	A	P
			17	Ingersoll, A	A	A	P
Ge 103	3-0-6	Introduction to the Solar System <i>Taught concurrently with Ge/Ay 011C</i>	01	Ingersoll, A	TR 13:00 - 14:25	A	
Ge 109	+	Oral Presentation <i>Section 1: Geochemistry // Section 2: Geobiology</i>	01	Rossmann, G	R 17:15 - 18:15	A	P
			02	Sessions, A	A	A	P
			03	Fischer, W	A	A	P
Ge 111B	0-3-6	Applied Geophysics Seminar and Field Course <i>class cancelled</i>	01	Staff	A	A	G
Ge 120A	1-6-2	Introduction to Field Geology <i>class cancelled</i>	01	Bucholz, C	A	A	
Ge 121A	0-9-3	Advanced Field Geology <i>class cancelled</i>	01	Avouac, J	A	A	

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GEOLOGY							
Ge 121C	0-9-3	Advanced Field Geology <i>class cancelled</i>	01	Stock, J	A	A	G
Ge 124A	0-0-6	Paleomagnetism and Magnetostratigraphy <i>class cancelled</i>	01	Kirschvink, J	A	A	
Ge 124B	3-3-3	Paleomagnetism and Magnetostratigraphy	01	Kirschvink, J	OM,M 17:00 - 17:25	A	
Ge/Ch 127	3-0-6	Nuclear Chemistry	01	Burnett, D	TR 14:30 - 15:55	A	
Ge 131	3-0-6	Planetary Structure and Evolution	01	Stevenson, D	MWF 10:00 - 10:55	A	
Ge 136C	1-0-2	Regional Field Geology of the Southwestern United States <i>class cancelled</i>	01	Kirschvink, J	A	A	P
ESE/Ge 142	3-0-6	Aquatic Chemistry of Natural Waters	01	Adkins, J	MWF 13:00 - 13:55	A	
Ge/ESE 143	3-2-4	Organic Geochemistry	01	Sessions, A	MWF 11:00 - 11:55	A	
Ge/ESE 150	3-0-6	Planetary Atmospheres	01	Knutson, H	MWF 14:00 - 14:55	A	
Ge/EE/ESE 157C	3-3-3	Remote Sensing for Environmental and Geological Applications	011	Ehlmann, B	TR 09:00 - 10:25	A	
Ge 163	3-0-6	Geodynamics	01	Gurnis, M	MWF 09:00 - 09:55	A	
ESE/Ge/Ch 171	3-0-6	Atmospheric Chemistry I	01	Seinfeld, J / Wennberg, P	TR 13:00 - 14:25	A	
Ge 190	0-0-0	The Nature and Evolution of the Earth <i>Outreach and mentoring // 3 units</i>	01	Newman, D	A	A	P
			02	Sessions, A	A	A	P
			03	Fischer, W	A	A	P
			04	Avouac, J	A	A	P

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GEOLOGY							
Ge 190	0-0-0	The Nature and Evolution of the Earth <i>Outreach and mentoring // 3 units</i>	05	Bucholz, C	A	A	P
Ay/Ge 198	2-0-4	Special Topics in the Planetary Sciences	01	Mawet, D / Howard, A	M 10:00 - 11:55	A	
Ge 214	3-0-6	Spectroscopy of Minerals	01	Rossman, G	MWF 15:00 - 15:55	A	
Ge 219	2-0-4	Non-traditional Isotopes Seminar	01	Tissot, F	TR 15:00 - 15:55	A	
Ge/Bi 244	3-0-3	Paleobiology Seminar	01	Kirschvink, J	OM,M 16:30 - 16:55	A	
Ge 261	3-0-6	Advanced Seismology	01	Zhan, Z	MWF 15:00 - 15:55	A	
Ge 264	3-0-6	Machine Learning in Geophysics	01	Ross, Z	TR 13:00 - 14:25	A	
Ge 270	3-0-6	Continental Tectonics	01	Wernicke, B	TR 15:00 - 16:25	A	
Ge 297	+	Advanced Study	01	Adkins, J	A	A	P
			02	Clayton, R	A	A	P
			03	Stock, J	A	A	P
			04	Asimow, P	A	A	P
			05	Blake, G	A	A	P
			06	Brown, M	A	A	P
			07	Grotzinger, J	A	A	P
			08	Eiler, J	A	A	P
			09	Jackson, J	A	A	P
			10	Farley, K	A	A	P
			11	Gurnis, M	A	A	P
			12	Saleeby, J	A	A	P
			14	Ingersoll, A	A	A	P
			15	Jackson, J	A	A	P

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GEOLOGY							
Ge 297	+	Advanced Study	16	Kirschvink, J	A	A	P
			17	Kulkarni, S	A	A	P
			18	Newman, D	A	A	P
			19	Fischer, W	A	A	P
			20	Bordoni, S	A	A	P
			21	Ehlmann, B	A	A	P
			22	Rossman, G	A	A	P
			23	Lamb, M	A	A	P
			24	Miller, T	A	A	P
			25	Simons, M	A	A	P
			26	Stevenson, D	A	A	P
			27	Zhan, Z	A	A	P
			28	Stolper, E	A	A	P
			29	Batygin, K	A	A	P
			30	Bucholz, C	A	A	P
			31	Tissot, F	A	A	P
			32	Wernicke, B	A	A	P
			33	Ross, Z	A	A	P
			34	Yung, Y	A	A	P
			35	Wennberg, P	A	A	P
			36	Avouac, J	A	A	P
			37	Aharonson, O	A	A	P
			38	Lapusta, N	A	A	P
			39	Sessions, A	A	A	P
			40	Orphan, V	A	A	P
			42	Tsai, V	A	A	P
43	Knutson, H	A	A	P			
44	Leadbetter, J	A	A	P			
45	Ross, Z	A	A	P			
46	de Kleer, K	A	A	P			
Ge 299	+	Thesis Research	01	Adkins, J	A	A	P
			02	Batygin, K	A	A	P
			03	Fischer, W	A	A	P

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Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
GEOLOGY							
Ge 299	+	Thesis Research	04	Kirschvink, J	A	A	P
			05	Asimow, P	A	A	P
			06	Blake, G	A	A	P
			07	Brown, M	A	A	P
			08	Clayton, R	A	A	P
			09	Eiler, J	A	A	P
			10	Farley, K	A	A	P
			11	Gurnis, M	A	A	P
			12	Heaton, T	A	A	P
			14	Schneider, T	A	A	P
			15	Grotzinger, J	A	A	P
			16	Simons, M	A	A	P
			17	Avouac, J	A	A	P
			18	Newman, D	A	A	P
			20	Ehlmann, B	A	A	P
			21	Orphan, V	A	A	P
			22	Fischer, W	A	A	P
			23	Saleeby, J	A	A	P
			24	Kulkarni, S	A	A	P
			25	Lamb, M	A	A	P
			26	Stevenson, D	A	A	P
			27	Stock, J	A	A	P
			28	Stolper, E	A	A	P
			29	Knutson, H	A	A	P
			30	Bucholz, C	A	A	P
			31	Zhan, Z	A	A	P
			32	Yung, Y	A	A	P
			33	Wernicke, B	A	A	P
			34	Rossmann, G	A	A	P
			35	Sessions, A	A	A	P
			36	Lapusta, N	A	A	P
			37	Jackson, J	A	A	P
			38	Ingersoll, A	A	A	P

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Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
GEOLOGY							
Ge 299	+	Thesis Research	39	Bordoni, S	A	A	P
			40	Tsai, V	A	A	P
			41	Leadbetter, J	A	A	P
			42	Ross, Z	A	A	P
			43	de Kleer, K	A	A	P
HISTORY							
Hum/H 002	3-0-6	Twentieth Century African American History <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Wiggins, D	TR 14:30 - 15:55	A	
Hum/H 008A	3-0-6	Civilization, Science, and Archaeology: Before Greece: The Origins of Civilization in Mesopotamia <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Buchwald, J	TR 14:30 - 15:55	A	
Hum/H 009B	3-0-6	European Civilization: Early Modern Europe <i>Attendance at the first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Wey-Gomez, N	TR 09:00 - 10:25	A	
Hum/H 009C	3-0-6	European Civilization: Modern Europe <i>Attendance at the first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Kormos-Buchwald, D	T 19:00 - 21:55	A	
Hum/H/HPS 018	3-0-6	Introduction to the History of Science <i>Attendance at the first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Feingold, M	M 19:00 - 21:55	A	
H 098	+	Reading in History <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P
H 099C	1-0-8	Research Tutorial <i>Instructor permission required prior to registering</i>	01	Staff	A	A	
H 108B	3-0-6	The High Middle Ages <i>maximum enrollment: 25 students</i>	01	Brown, W	MWF 13:00 - 13:55	A	

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HISTORY							
H 132	3-0-6	Humanistic Ecology <i>maximum enrollment: 15 students</i>	01	Lewis, D	T 19:00 - 21:55	A	
H 152	3-0-6	Where Do We Go From Here? Black America in the Post-Civil Rights Era <i>maximum enrollment: 20 students</i>	01	Wiggins, D	W 19:00 - 21:55	A	
H/HPS 155B	3-0-6	Mortality Crises and Social Change: Epidemic Disease from 1300 to the Present <i>maximum enrollment: 15 students</i>	01	Kormos-Buchwald, D	W 19:00 - 21:55	A	
HPS/H 162	3-0-6	Social Studies of Science <i>maximum enrollment: 15 students</i>	01	Feingold, M	T 19:00 - 21:55	A	
HPS/H 168	3-0-6	History of Electromagnetism and Heat Science <i>maximum enrollment: 15 students</i>	01	Buchwald, J	TR 10:30 - 11:55	A	
HPS/H 174	3-0-6	Economies of Nature: Global History of Biotechnology <i>maximum enrollment: 15 students</i>	01	Kollmer, C	TR 14:30 - 15:55	A	G
En/H 193	3-0-6	Cervantes, Truth or Dare: Don Quixote in an Age of Empire <i>maximum enrollment: 15 students</i>	01	Wey-Gomez, N	TR 13:00 - 14:25	A	
HISTORY AND PHILOSOPHY OF SCIENCE							
Hum/H/HPS 018	3-0-6	Introduction to the History of Science <i>Attendance at the first class meeting is required.</i> <i>// Maximum enrollment: 15 students</i>	01	Feingold, M	M 19:00 - 21:55	A	
HPS098	+	Reading in History and Philosophy of Science	01	Kormos-Buchwald, D	A	A	P
HPS/PI 120	3-0-6	Introduction to Philosophy of Science <i>maximum enrollment: 15 students</i>	01	Sebens, C	TR 13:00 - 14:25	A	
HPS/PI 125	3-0-6	Philosophical Issues in Quantum Physics <i>maximum enrollment: 20 students</i>	01	Hubert, M	TR 14:30 - 15:55	A	
H/HPS 155B	3-0-6	Mortality Crises and Social Change: Epidemic Disease from 1300 to the Present	01	Kormos-Buchwald, D	W 19:00 - 21:55	A	

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HISTORY AND PHILOSOPHY OF SCIENCE							
H/HPS 155B	3-0-6	Mortality Crises and Social Change: Epidemic Disease from 1300 to the Present <i>maximum enrollment: 15 students</i>					
HPS/H 162	3-0-6	Social Studies of Science <i>maximum enrollment: 15 students</i>	01	Feingold, M	T 19:00 - 21:55	A	
HPS/H 168	3-0-6	History of Electromagnetism and Heat Science <i>maximum enrollment: 15 students</i>	01	Buchwald, J	TR 10:30 - 11:55	A	
HPS/H 174	3-0-6	Economies of Nature: Global History of Biotechnology <i>maximum enrollment: 15 students</i>	01	Kollmer, C	TR 14:30 - 15:55	A	G
HUMANITIES							
Hum/H 002	3-0-6	Twentieth Century African American History <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Wiggins, D	TR 14:30 - 15:55	A	
Hum/H 008A	3-0-6	Civilization, Science, and Archaeology: Before Greece: The Origins of Civilization in Mesopotamia <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Buchwald, J	TR 14:30 - 15:55	A	
Hum/H 009B	3-0-6	European Civilization: Early Modern Europe <i>Attendance at the first class meeting is required. // Maximum enrollment: 15 students</i>	01	Wey-Gomez, N	TR 09:00 - 10:25	A	
Hum/H 009C	3-0-6	European Civilization: Modern Europe <i>Attendance at the first class meeting is required. // Maximum enrollment: 15 students</i>	01	Kormos-Buchwald, D	T 19:00 - 21:55	A	
Hum/H/HPS 018	3-0-6	Introduction to the History of Science <i>Attendance at the first class meeting is required. // Maximum enrollment: 15 students</i>	01	Feingold, M	M 19:00 - 21:55	A	
Hum/En 021	3-0-6	Monsters and Marvels <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Jahner, J	TR 14:30 - 15:55	A	

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HUMANITIES							
Hum/En 022	3-0-6	Inequality <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Haugen, K	R 19:00 - 21:55	A	
Hum/En 023	3-0-6	Literature and Medicine <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Gilmore, D	TR 14:30 - 15:55	A	
Hum/En 026	3-0-6	What Is Imagination? <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Holland, J	TR 09:00 - 10:25	A	
Hum/En 027	3-0-6	Literature and the Problem of Belief <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Koch, J	TR 09:00 - 10:25	A	
Hum/PI 041	3-0-6	Knowledge and Reality <i>Attendance at the first class meeting is required. //</i> <i>Maximum enrollment: 15 students per section</i>	01 02	Hitchcock, C Hitchcock, C	T 09:00 - 10:25 T 14:30 - 15:55	A A	
Hum/PI 044	3-0-6	Philosophy Through Science Fiction <i>Attendance at the first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Sebens, C	TR 09:00 - 10:25	A	
Hum075	0-0-0	Selected Topics in Humanities: Careers in STEAM <i>(0-0-1) units // taught concurrently with E 100</i>	01	Mushkin, H	R 12:00 - 12:55	A	P
Hum075	0-0-0	Selected Topics in Humanities: LGBTQ+ Representation in Contemporary Films <i>3 units (2-0-1) // maximum enrollment: 15 students</i>	02	Jurca, C	M 17:00 - 17:55	A	P
Hum114C	3-0-6	Spanish and Latin American Literature <i>maximum enrollment: 15 students</i>	01	Garcia, D	OM,M 17:00 - 17:55	A	
L/Hum 150B	3-0-6	Japanese Literature in Translation <i>taught by Dr. Hirai // maximum enrollment: 15 students</i>	01	Toner, R	TR 16:00 - 17:25	A	
L/Hum 152B	3-0-6	French Literature in Translation: Classical and Modern	01	Merrill, T	OM,T 14:00 - 14:55	A	

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HUMANITIES							
L/Hum 152B	3-0-6	French Literature in Translation: Classical and Modern <i>maximum enrollment: 15 students</i>					
Hum174	3-0-6	Topics in Chinese Literature <i>maximum enrollment: 10 students</i>	01	Ming, F	MW 17:00 - 18:25	A	
INFORMATION AND DATA SCIENCES							
CS/IDS 150B	3-0-6	Probability and Algorithms	01	Schulman, L	MWF 10:00 - 10:55	A	
IDS/ACM/CS 157	3-2-4	Statistical Inference	01	Zuev, K	TR 09:00 - 10:25	A	
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Yue, Y	TR 14:30 - 15:55	A	
ACM/EE/IDS 170	3-0-9	Mathematics of Signal Processing	01	Hassibi, B	TR 13:00 - 14:25	A	
IDS197	+	Undergraduate Reading in the Information and Data Sciences	01	Staff	A	A	P
IDS198	+	Undergraduate Projects in Information and Data Sciences	01	Murray, R	A	A	P
			02	Low, S	A	A	P
			03	Chandrasekaran, V	A	A	P
			04	Zuev, K	A	A	P
IDS199	+	Undergraduate Thesis in the Information and Data Sciences	01	Perona, P	A	A	P
LANGUAGES							
L 102C	3-0-6	Elementary French	01	Orcel, C	OM,M 13:00 - 13:55	A	G
L 103C	3-0-6	Intermediate French	01	Orcel, C	OM,M 14:00 - 14:55	A	

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LANGUAGES							
L 106C	4-0-5	Elementary Japanese <i>maximum enrollment: 15 students per section</i>	01	Fujio, M	MTWR 15:00 - 15:55	A	
			02	Fujio, M	MTWR 16:00 - 16:55	A	
L 107C	3-0-6	Intermediate Japanese <i>Prerequisite: L 106abc or equivalent // Taught by Dr. Hirai // maximum enrollment: 15 students</i>	01	Toner, R	MW 16:00 - 17:25	A	
L 110C	3-0-6	Elementary Spanish <i>maximum enrollment: 20 students per section</i>	01	Arjona, G	OM,M 12:00 - 12:55	A	
			02	Garcia, D	MWR 12:00 - 12:55	A	
L 112C	3-0-6	Intermediate Spanish <i>maximum enrollment: 20 students</i>	01	Arjona, G	M 17:00 - 17:55	A	
L 114C	3-0-6	Spanish and Latin American Literature <i>maximum enrollment: 5 students</i>	01	Garcia, D	OM,M 17:00 - 17:55	A	
L 130C	3-0-6	Elementary German	01	Aebi, A	MWR 13:00 - 13:55	A	
L 132C	3-0-6	Intermediate German	01	Aebi, A	MWR 12:00 - 12:55	A	
L/Hum 150B	3-0-6	Japanese Literature in Translation <i>taught by Dr. Hirai // maximum enrollment: 15 students</i>	01	Toner, R	TR 16:00 - 17:25	A	
L/Hum 152B	3-0-6	French Literature in Translation: Classical and Modern <i>maximum enrollment: 15 students</i>	01	Merrill, T	OM,T 14:00 - 14:55	A	
L 167	3-0-6	Latin Literature <i>maximum enrollment: 15 students</i>	01	Pigman, G	OM,M 13:00 - 13:55	A	
L 170C	3-0-6	Introduction to Chinese <i>maximum enrollment: 20 students</i>	01	Wang, X	MTW 12:00 - 12:55	A	
L 171C	3-0-6	Elementary Chinese <i>maximum enrollment: 20 students</i>	01	Ming, F	MTW 16:00 - 16:55	A	
L 172C	3-0-6	Intermediate Chinese <i>maximum enrollment: 20 students</i>	01	Wang, X	TR 09:00 - 10:25	A	

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LANGUAGES							
L 174	3-0-6	Topics in Chinese Literature <i>maximum enrollment: 10 students</i>	01	Ming, F	MW 17:00 - 18:25	A	
L 175	3-0-3	French Conversation	01	Orcel, C	OM,M 12:00 - 12:55	A	P
MATERIALS SCIENCE							
MS 078C	+	Senior Thesis	01	Gharib, M	A	A	P
			02	Johnson, W	A	A	P
			03	Ravichandran, G	A	A	P
			04	Greer, J	A	A	P
			05	Goddard, W	A	A	P
			06	Minnich, A	A	A	P
			07	Fultz, B	A	A	P
			08	Faber, K	A	A	P
			09	Daraio, C	A	A	P
MS 090	1-6-2	Materials Science Laboratory	01	Hofmann, D	M 12:00 - 12:55	A	
MS 100	+	Advanced Work in Materials Science	01	Minnich, A	A	A	P
			02	Fultz, B	A	A	P
			03	Lewis, N	A	A	P
			04	Davis, M	A	A	P
			05	Johnson, W	A	A	P
			06	Greer, J	A	A	P
			07	Faber, K	A	A	P
			08	Falson, J	A	A	P
			09	Gao, W	A	A	P
APh/MS 105C	3-0-6	States of Matter	01	Falson, J	TR 09:00 - 10:25	A	
MS 110C	1-0-0	Materials Research Lectures	01	Bernardi, M	W 16:00 - 16:55	A	P

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MATERIALS SCIENCE							
MS 121	1-4-4	Laboratory Research Methods in Materials Science	01	Ahn, C	A	A	
MS/APh 122	0-4-5	Diffraction, Imaging, and Structure <i>class cancelled</i>	01	Ahn, C	A	A	
MS 133	3-0-6	Kinetic Processes in Materials	01	Faber, K	TR 10:30 - 11:55	A	
MS 141	3-0-6	Introduction to Computational Methods for Science and Engineering	01	Bernardi, M	MWF 13:00 - 13:55	A	
MS/ME 161	3-0-6	Imperfections in Crystals	01	Greer, J	TR 14:30 - 15:55	A	
MS/APh 171	3-0-6	Inelastic Scattering of Materials, Molecules, and Condensed Matter	01	Fultz, B	MW 09:30 - 10:55	A	
MS 200	+	Advanced Work in Materials Science	01	Johnson, W	A	A	P
			02	Goddard, W	A	A	P
			03	Blake, G	A	A	P
			04	Fultz, B	A	A	P
			05	Daraio, C	A	A	P
			06	Heath, J	A	A	P
			07	Bhattacharya, K	A	A	P
			08	Lewis, N	A	A	P
			09	Yeh, N	A	A	P
			10	Atwater, H	A	A	P
			11	Ahn, C	A	A	P
			12	Greer, J	A	A	P
			13	Minnich, A	A	A	P
			14	Bernardi, M	A	A	P
			15	Ortiz, M	A	A	P
			16	Kochmann, D	A	A	P
			17	Faber, K	A	A	P
			18	Rees, D	A	A	P
			19	See, K	A	A	P

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MATERIALS SCIENCE							
MS 200	+	Advanced Work in Materials Science	20	Kornfield, J	A	A	P
			21	Falson, J	A	A	P
			22	Gao, W	A	A	P
ME/MS/Ae/AM 224	3-0-6	Multifunctional Materials	01	Bhattacharya, K	TR 13:00 - 14:25	A	
MS 300	+	Thesis Research	01	Johnson, W	A	A	P
			02	Faber, K	A	A	P
			03	Atwater, H	A	A	P
			04	Goddard, W	A	A	P
			05	Fultz, B	A	A	P
			06	Greer, J	A	A	P
			07	Haile, S	A	A	P
			08	Lewis, N	A	A	P
			09	Bhattacharya, K	A	A	P
			10	Rosakis, A	A	A	P
			11	Minnich, A	A	A	P
			12	Snyder, G	A	A	P
			13	Bernardi, M	A	A	P
			14	Ortiz, M	A	A	P
			15	Falson, J	A	A	P
			16	Cross, M	A	A	P
			17	Rees, D	A	A	P
			18	Gao, W	A	A	P
MATHEMATICS							
Ma 001C	4-0-5	Calculus of One and Several Variables and Linear Algebra <i>Practical Track: Section 1-6 (Letter grades only) // Analytical Track: Sections 7-9 (Letter with the option to pass-fail)</i>	01	Flach, M	MWF 10:00 - 10:55 R 09:00 - 09:55	A A	
			02	Flach, M	MWF 10:00 - 10:55 R 10:00 - 10:55	A A	
			03	Flach, M	MWF 10:00 - 10:55 R 13:00 - 13:55	A A	
			04	Flach, M	MWF 10:00 - 10:55	A	

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MATHEMATICS							
Ma 001C	4-0-5	Calculus of One and Several Variables and Linear Algebra <i>Practical Track: Section 1-6 (Letter grades only) // Analytical Track: Sections 7-9 (Letter with the option to pass-fail)</i>	04	Flach, M	R 14:00 - 14:55	A	
			05	Flach, M	MWF 10:00 - 10:55	A	
					R 18:00 - 18:55	A	
			06	Flach, M	MWF 10:00 - 10:55	A	
					R 10:00 - 10:55	A	
			07	Ni, Y	MWF 10:00 - 10:55	A	
					R 10:00 - 10:55	A	
			08	Ni, Y	MWF 10:00 - 10:55	A	
					R 16:00 - 16:55	A	
			09	Ni, Y	MWF 10:00 - 10:55	A	
					R 15:00 - 15:55	A	
Ma 004	3-0-6	Introduction to Mathematical Chaos <i>taught concurrently with Ma 104</i>	01	Parikh, S	TR 10:30 - 11:55	A	
Ma 005C	3-0-6	Introduction to Abstract Algebra <i>taught concurrently with Ma 105c</i>	01	Mantovan, E	MWF 09:00 - 09:55	A	
Ma/CS 006C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma 106c</i>	01	Kechris, A	TR 13:00 - 14:25	A	
Ma 007	3-0-6	Number Theory for Beginners <i>taught concurrently with Ma 107</i>	01	Campbell, C	TR 10:30 - 11:55	A	
Ma 011	0-0-3	Mathematical Writing <i>class is taught as individually scheduled meetings after the OM</i>	01	Ni, Y	A	A	
Ma 092C	+	Senior Thesis	01	Mantovan, E	A	A	P
			02	Kechris, A	A	A	P
			03	Marcolli, M	A	A	P
			04	Burungale, A	A	A	P
			05	Zhu, X	A	A	P
			06	Burungale, A	A	A	P
Ma 097	+	Research in Mathematics	01	Ni, Y	A	A	P
			02	Burungale, A	A	A	P

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MATHEMATICS							
Ma 098	+	Independent Reading <i>Faculty permission required to register for course.</i>	01	Graber, T	A	A	P
			02	Katz, N	A	A	P
			03	Mazel-Gee, A	A	A	P
			04	Chen, L	A	A	P
			05	Smillie, P	A	A	P
			06	Parikh, S	A	A	P
Ma 104	3-0-6	Introduction to Mathematical Chaos <i>taught concurrently with Ma 4</i>	01	Parikh, S	TR 10:30 - 11:55	A	
Ma 105C	3-0-6	Introduction to Abstract Algebra <i>taught concurrently with Ma 5c</i>	01	Mantovan, E	MWF 09:00 - 09:55	A	
Ma/CS 106C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma/CS 006c</i>	01	Kechris, A	TR 13:00 - 14:25	A	
Ma 107	3-0-6	Number Theory for Beginners <i>taught concurrently with Ma 7</i>	01	Campbell, C	TR 10:30 - 11:55	A	
Ma 108C	3-0-6	Classical Analysis	01	Karpukhin, M	MWF 11:00 - 11:55	A	
Ma 109C	3-0-6	Introduction to Geometry and Topology	01	Park, J	MWF 13:00 - 13:55	A	
Ma 110C	3-0-6	Analysis, I	01	Angelopoulos, I	MWF 11:00 - 11:55	A	
Ma 111C	3-0-6	Topics in Analysis	01	Makarov, N	TR 10:30 - 11:55	A	
Ma/CS 117C	3-0-6	Computability Theory	01	Vidnyanszky, Z	TR 13:00 - 14:25	A	
Ma 120C	3-0-6	Abstract Algebra	01	Flach, M	MWF 09:00 - 09:55	A	
Ma 121B	3-0-6	Combinatorial Analysis	01	Conlon, D	TR 13:00 - 14:25	A	

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MATHEMATICS							
Ma 130C	3-0-6	Algebraic Geometry	01	Campbell, C	MWF 13:00 - 13:55	A	
Ma 151C	3-0-6	Algebraic and Differential Topology	01	Chen, L	MWF 10:00 - 10:55	A	
Ma 160C	3-0-6	Number Theory	01	Dunn, A	MWF 14:00 - 14:55	A	
Ma 191C	3-0-6	Selected Topics in Mathematics	01	Karpukhin, M	A	A	P
		<i>Sec 1: cancelled// Sec 2: Integrable systems and harmonic maps // Sec 3: Representations of $GL_2(F)$ for a local non-Archimedean field F</i>	02	Smillie, P	TR 13:00 - 14:25	A	P
			03	Szumowicz, A	TR 14:30 - 15:55	A	P
Ma 290	+	Reading	01	Conlon, D	A	A	P
		<i>Faculty permission required to register for course.</i>	02	Flach, M	A	A	P
			03	Frank, R	A	A	P
			04	Graber, T	A	A	P
			05	Isett, P	A	A	P
			06	Katz, N	A	A	P
			07	Kechris, A	A	A	P
			08	Makarov, N	A	A	P
			09	Mantovan, E	A	A	P
			10	Marculli, M	A	A	P
			11	Markovic, V	A	A	P
			12	Ni, Y	A	A	P
			13	Radziwill, M	A	A	P
			14	Rains, E	A	A	P
			15	Ramakrishnan, D	A	A	P
			16	Wang, L	A	A	P
			17	Zhu, X	A	A	P
			18	Gukov, S	A	A	P
			19	Kapustin, A	A	A	P
			20	Kapustin, A	A	A	P
			21	Kitaev, A	A	A	P
			22	Tamuz, O	A	A	P

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MATHEMATICS							
Ma 290	+	Reading	23	Cvitanic, J	A	A	P
		<i>Faculty permission required to register for course.</i>	24	Owhadi, H	A	A	P
			26	Burungale, A	A	A	P
Ma 390	+	Research	01	Conlon, D	A	A	P
		<i>Faculty permission required to register for research.</i>	02	Flach, M	A	A	P
			03	Frank, R	A	A	P
			04	Graber, T	A	A	P
			05	Isett, P	A	A	P
			06	Katz, N	A	A	P
			07	Kechris, A	A	A	P
			08	Makarov, N	A	A	P
			09	Mantovan, E	A	A	P
			10	Marcolli, M	A	A	P
			11	Markovic, V	A	A	P
			12	Ni, Y	A	A	P
			13	Radziwill, M	A	A	P
			14	Rains, E	A	A	P
			15	Ramakrishnan, D	A	A	P
			16	Wang, L	A	A	P
			17	Zhu, X	A	A	P
			18	Gukov, S	A	A	P
			19	Kapustin, A	A	A	P
			20	Kitaev, A	A	A	P
			21	Oguri, H	A	A	P
			22	Tamuz, O	A	A	P
			23	Cvitanic, J	A	A	P
			24	Owhadi, H	A	A	P
MECHANICAL ENGINEERING							
ME 011C	3-0-6	Thermal Science	01	Colonus, T	MWF 14:00 - 14:55	A	G

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MECHANICAL ENGINEERING							
ME 012C	3-0-6	Mechanics	01	Fu, X	TR 13:00 - 14:25	A	
ME 014	3-5-1	Design and Fabrication <i>Maximum enrollment: 30 students // Limited to ME or Ae students // Not open to freshmen</i>	01	Van Deusen, J / Mello, M / Stovall, P	TR 14:30 - 15:55	A	G
ME 050B	0-6-3	Experiments and Modeling in Mechanical Engineering	01	Mello, M	MW 09:00 - 10:25	A	G
ME 090C	0-9-0	Senior Thesis, Experimental	01	Minnich, A	A	A	
ME 100	+	Independent Studies in Mechanical Engineering	01	Kochmann, D	A	A	P
			02	Hunt, M	A	A	P
			03	Burdick, J	A	A	P
			04	Blanquart, G	A	A	P
			05	Minnich, A	A	A	P
			06	Scherer, A	A	A	P
			07	Colonus, T	A	A	P
			08	Murray, R	A	A	P
			09	Mawet, D	A	A	P
			10	Perona, P	A	A	P
			11	Doyle, J	A	A	P
			12	Daraio, C	A	A	P
			13	Ames, A	A	A	P
			14	Mello, M	A	A	P
			15	McKeon, B	A	A	P
Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Pullin, D	MWF 10:00 - 10:55	A	P
Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	A	G
ME 110	+	Special Laboratory Work in Mechanical Engineering	01	Murray, R	A	A	P
			02	Burdick, J	A	A	P
			05	Ravichandran, G	A	A	P

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MECHANICAL ENGINEERING							
ME 110	+	Special Laboratory Work in Mechanical Engineering	06	Shepherd, J	A	A	P
			07	Scherer, A	A	A	P
Ae/ME 120A	3-0-6	Combustion Fundamentals	01	Blanquart, G	MWF 14:00 - 14:55	A	G
ME/CS/EE 129	3-6-0	Experimental Robotics	01	Niemeyer, G	MWF 15:00 - 15:55	A	
ME/CS/EE 134	3-6-0	Robotic Systems <i>class cancelled</i>	01	Niemeyer, G	A	A	
AM/CE/ME 150C	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	A	P
MS/ME 161	3-0-6	Imperfections in Crystals	01	Greer, J	TR 14:30 - 15:55	A	
ME 200	+	Advanced Work in Mechanical Engineering	01	Lapusta, N	A	A	P
			02	Ravichandran, G	A	A	P
			03	Burdick, J	A	A	P
			05	Bhattacharya, K	A	A	P
ME 201	3-0-6	Advanced Topics in Mechanical Engineering <i>taught concurrently with AM 201 and CE 201</i>	01	Andrade, J	TR 15:00 - 16:25	A	
ME/MS/Ae/AM 224	3-0-6	Multifunctional Materials	01	Bhattacharya, K	TR 13:00 - 14:25	A	
Ae/ACM/ME 232B	3-0-6	Computational Fluid Dynamics <i>class cancelled</i>	01	Pullin, D	A	A	
ME 300	+	Research in Mechanical Engineering	01	Ames, A	A	A	P
			02	Bellan, P	A	A	P
			03	Bhattacharya, K	A	A	P
			04	Burdick, J	A	A	P
			05	Colonus, T	A	A	P
			06	Adkins, J	A	A	P
			07	Gharib, M	A	A	P

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MECHANICAL ENGINEERING										
ME 300	+	Research in Mechanical Engineering	08	Kochmann, D	A	A	P			
			09	Stuart, A	A	A	P			
			10	Hunt, M	A	A	P			
			11	Lapusta, N	A	A	P			
			12	Leonard, A	A	A	P			
			13	Murray, R	A	A	P			
			14	Ortiz, M	A	A	P			
			15	Shepherd, J	A	A	P			
			17	Brady, J	A	A	P			
			18	Scherer, A	A	A	P			
			19	Troian, S	A	A	P			
			20	Greer, J	A	A	P			
			21	Daraio, C	A	A	P			
			22	Dickinson, M	A	A	P			
			23	Ravichandran, G	A	A	P			
			24	Atwater, H	A	A	P			
			25	Fultz, B	A	A	P			
			26	Blanquart, G	A	A	P			
			27	Andrade, J	A	A	P			
			28	McKeon, B	A	A	P			
			29	Hoffmann, M	A	A	P			
			30	Asimaki, D	A	A	P			
			31	Minnich, A	A	A	P			
			32	Lewis, N	A	A	P			
			33	Schneider, T	A	A	P			
			34	Pachter, L	A	A	P			
			35	Rosakis, A	A	A	P			
			36	Dabiri, J	A	A	P			
			37	Chung, S	A	A	P			
			38	Ismagilov, R	A	A	P			
			39	Fu, X	A	A	P			
			MEDICAL ENGINEERING							

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MEDICAL ENGINEERING							
MedE 099	+	Undergraduate Research in Medical Engineering	01	Gao, W	A	A	P
			02	Shapiro, M	A	A	P
			03	Wang, L	A	A	P
MedE 100C	1-0-0	Medical Engineering Seminar	01	Tai, Y / Gao, W	A	A	P
EE/MedE 114B	4-0-8	Analog Circuit Design	01	Hajimiri, S	TR 09:00 - 10:55	A	
EE/MedE 124	3-0-6	Mixed-mode Integrated Circuits <i>class cancelled</i>	01	Staff	A	A	
EE/CS/MedE 125	3-6-0	Digital Electronics and Design with FPGAs and VHDL	01	Pedroni, V	OM,T 16:00 - 16:55	A	
BE/EE/MedE 189A	3-6-3	Design and Construction of Biodevices <i>maximum enrollment: 24 students</i>	01	Yang, C	TR 14:30 - 15:55	A	
BE/EE/MedE 189B	0-9-0	Design and Construction of Biodevices	01	Yang, C	TR 14:30 - 15:55	A	
MedE 201B	3-0-6	Principles and Design of Medical Devices <i>class will focus on Neural Medical Devices</i>	01	Gao, W / Tai, Y	MW 13:00 - 14:25	A	G
MedE 205	2-0-4	New Frontiers in Medical Technologies	01	Nikzad, S	TR 11:00 - 11:55	A	P
MedE/EE 268	4-0-5	Medical Imaging	01	Wang, L	WF 15:30 - 17:25	A	
MedE 291	+	Research in Medical Engineering	01	Burdick, J	A	A	P
			02	Choo, H	A	A	P
			03	Gao, W	A	A	P
			04	Emami, A	A	A	P
			05	Faraon, A	A	A	P
			06	Gharib, M	A	A	P
			07	Greer, J	A	A	P
			08	Hajimiri, S	A	A	P

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MEDICAL ENGINEERING							
MedE 291	+	Research in Medical Engineering	09	Scherer, A	A	A	P
			10	Tai, Y	A	A	P
			11	Yang, C	A	A	P
			12	Chandy, K	A	A	P
			13	Pickar, K	A	A	P
			14	Colonius, T	A	A	P
			15	Grubbs, R	A	A	P
			16	Ismagilov, R	A	A	P
			17	Shapiro, M	A	A	P
			18	Wang, L	A	A	P
			19	Gradinaru, V	A	A	P
			20	Daraio, C	A	A	P
			21	Kornfield, J	A	A	P
			22	Pachter, L	A	A	P
23	Thomson, M	A	A	P			
MUSIC							
Mu 055	3-0-6	The Great Orchestras: Their History, Conductors and Repertoire <i>maximum enrollment: 25 students</i>	01	Neenan, T	MW 11:00 - 12:25	A	
Mu 139	3-0-6	History III: Music History from 1850 to the Present <i>maximum enrollment: 20 students</i>	01	Neenan, T	MW 14:00 - 15:25	A	
NEUROBIOLOGY							
Bi/CNS/NB/Psy 150	4-0-6	Introduction to Neuroscience	01	Adolphs, R / Lester, H	R 13:00 - 13:55	A	G
					MWF 10:00 - 10:55	A	
			02	Adolphs, R / Lester, H	MWF 10:00 - 10:55	A	G
					R 15:00 - 15:55	A	
03	Adolphs, R / Lester, H	MWF 10:00 - 10:55	A	G			
		R 16:00 - 16:55	A				
04	Adolphs, R / Lester, H	MWF 10:00 - 10:55	A	G			
		R 19:00 - 19:55	A				

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NEUROBIOLOGY							
Bi/CNS/NB 152	2-0-4	Neural Circuits and Physiology of Appetite and Body Homeostasis	01	Oka, Y	TF 09:00 - 09:55	A	
Bi/CNS/NB 157	2-3-4	Comparative Nervous Systems	01	Allman, J	F 14:00 - 15:55	A	G
CNS/Bi/Psy/NB 176	4-0-5	Cognition	01	Shimojo, S	WF 10:00 - 11:55	A	
Bi/CNS/NB 220	2-0-4	Genetic Dissection of Neural Circuit Function	01	Anderson, D	R 15:00 - 17:55	A	
Bi/CNS/NB 250C	3-0-6	Topics in Systems Neuroscience	01	Siapas, A	W 14:00 - 16:55	A	
NB 299	+	Graduate Research	01	Adolphs, R	A	A	P
			02	Allman, J	A	A	P
			03	Andersen, R	A	A	P
			04	Anderson, D	A	A	P
			05	Bronner Hansen, M	A	A	P
			06	Dickinson, M	A	A	P
			07	Gradinaru, V	A	A	P
			08	Hong, E	A	A	P
			09	Kennedy, M	A	A	P
			10	Lester, H	A	A	P
			11	Lois, C	A	A	P
			12	Meister, M	A	A	P
			13	Oka, Y	A	A	P
			14	Prober, D	A	A	P
			15	Roukes, M	A	A	P
			16	Shapiro, M	A	A	P
			17	Shimojo, S	A	A	P
			18	Siapas, A	A	A	P
			19	Sternberg, P	A	A	P
			20	Tsao, D	A	A	P
			21	Wagenaar, D	A	A	P

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NEUROBIOLOGY							
NB 299	+	Graduate Research	22	Zinn, K	A	A	P
			23	Parker, J	A	A	P
			24	Yue, Y	A	A	P
PERFORMING AND VISUAL ARTS							
PVA030C	0-3-0	Guitar <i>Sec 1: Beginning Guitar / Sec 2: Intermediate Guitar / Sec 3: Advanced Guitar</i>	01	Elgart, M	T 16:30 - 17:25	A	P
			02	Elgart, M	T 15:30 - 16:25	A	P
			03	Elgart, M	T 17:30 - 18:25	A	P
PVA031C	0-3-0	Chamber Music <i>Sec 1: Mixed Ensembles // Sec 2: Piano Four-Hands // Sec 3: Guitar Ensemble</i>	01	Jasper White, M	OM,A	A	P
			02	Ward, R	OM,A	A	P
			03	Elgart, M	OM,A	A	P
PVA032C	0-3-0	Symphony Orchestra	01	Price, G	T 19:30 - 22:15	A	P
PVA033C	0-3-0	Wind Orchestra	01	Price, G	R 19:30 - 21:45	A	P
PVA034C	0-3-0	Jazz Band/Jazz Improvisation	01	Catlin, B	W 19:15 - 20:55 W 21:15 - 22:45	A A	P
PVA035C	0-3-0	Glee Club	01	Sulahian, N	M 19:00 - 20:25 W 17:05 - 18:35	A A	P
PVA037C	0-3-0	Chamber Singers	01	Sulahian, N	M 20:40 - 21:55	A	P
PVA040C	2-0-1	Long Form Storytelling	01	Brophy, B	W 19:00 - 20:25	A	P
PVA041C	2-0-1	Storytelling for Scientists	01	Brophy, B	W 19:00 - 20:25	A	P
PVA042C	2-0-1	Improvisation for Scientists <i>course cancelled</i>	01	Staff	A	A	P
PVA061C	0-3-0	Silkscreen and Silk Painting	01	Barry, J	M 19:00 - 21:55	A	P
			02	Barry, J	R 19:00 - 21:55	A	P

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PERFORMING AND VISUAL ARTS							
PVA062C	0-3-0	Drawing and Painting <i>Section 3: Drawing and Painting for Geologists - open to GPS students only</i>	01	Barry, J	T 19:00 - 21:55	A	P
			02	Barry, J	W 19:00 - 21:55	A	P
			03	Barry, J	R 16:00 - 18:55	A	P
PVA063C	0-3-0	Ceramics <i>course cancelled</i>	01	Staff	A	A	P
PHILOSOPHY							
Hum/PI 041	3-0-6	Knowledge and Reality <i>Attendance at the first class meeting is required. // Maximum enrollment: 15 students per section</i>	01	Hitchcock, C	T 09:00 - 10:25	A	
			02	Hitchcock, C	T 14:30 - 15:55	A	
Hum/PI 044	3-0-6	Philosophy Through Science Fiction <i>Attendance at the first class meeting is required. // Maximum enrollment: 15 students</i>	01	Sebens, C	TR 09:00 - 10:25	A	
PI 090B	1-0-8	Senior Thesis <i>Instructor permission required prior to registering</i>	01	Staff	A	A	
PI 098	+	Reading in Philosophy	01	Staff	A	A	P
HPS/PI 120	3-0-6	Introduction to Philosophy of Science <i>maximum enrollment: 15 students</i>	01	Sebens, C	TR 13:00 - 14:25	A	
HPS/PI 125	3-0-6	Philosophical Issues in Quantum Physics <i>maximum enrollment: 20 students</i>	01	Hubert, M	TR 14:30 - 15:55	A	
PI 185	3-0-6	Moral Philosophy <i>maximum enrollment: 15 students</i>	01	Pham, A	TR 13:00 - 14:25	A	
PHYSICAL EDUCATION							
PE 001	3-0-0	Wellness <i>maximum enrollment: 18 students per section</i>	01	Morgan, H	TR 09:00 - 10:25	A	P
			02	Eslinger, O	MW 13:00 - 14:25	A	P
			03	Whitehead, K	TR 14:30 - 15:55	A	P
PE 002	3-0-0	Student Designed Fitness <i>may only be taken once // maximum enrollment:</i>	01	Cohen, J	TR 10:30 - 11:55	A	P
			02	Gardner, T	MW 14:30 - 15:55	A	P

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PHYSICAL EDUCATION							
PE 002	3-0-0	Student Designed Fitness <i>may only be taken once // maximum enrollment: 18 students per section // section 3 cancelled</i>	03	Rensing, D	A	A	P
PE 003	3-0-0	Hiking <i>may only be taken once // maximum enrollment: 24 students</i>	01	Brabson, A	F 16:00 - 18:55	A	P
PE 004	3-0-0	Introduction to Power Walking <i>maximum enrollment: 18 students</i>	01	Gamble, M	TR 09:00 - 10:25	A	P
PE 005	3-0-0	Beginning Running <i>maximum enrollment: 18 students</i>	01	Raphelson, B	MW 09:00 - 10:25	A	P
PE 006	3-0-0	Core Training, Beginning/Intermediate <i>maximum enrollment: 18 students</i>	01	Bonafede, J	MW 11:00 - 12:25	A	P
PE 024	3-0-0	Yoga, Beginning <i>maximum enrollment: 24 students per section</i>	01 02	Chiang, N Chiang, N	MW 13:00 - 14:25 MW 15:00 - 16:25	A A	P P
PE 070	3-0-0	Weight Training, Beginning/Intermediate <i>maximum enrollment: 18 students per section</i>	01 02	Gould, E Reyes, B	MWF 10:00 - 10:55 TR 13:00 - 14:25	A A	P P
PE 085B	3-0-0	Intercollegiate Track and Field Teams <i>Open to NCAA eligible students only // men and women</i>	01	Raphelson, B	A	A	P
PE 087B	3-0-0	Intercollegiate Swimming and Diving Teams <i>Open to NCAA eligible students only // men and women</i>	01	Brabson, A	A	A	P
PE 090C	3-0-0	Intercollegiate Water Polo Teams <i>class cancelled</i>	01	Staff	A	A	P
PE 092	3-0-0	Intercollegiate Soccer Teams <i>Open to NCAA eligible students only // men and women</i>	01	Gould, E	A	A	P
PE 093B	3-0-0	Intercollegiate Baseball Team <i>Open to NCAA eligible students only</i>	01	Whitehead, K	A	A	P

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PHYSICAL EDUCATION							
PE 095B	3-0-0	Intercollegiate Tennis Teams <i>Open to NCAA eligible students only // men and women</i>	01	Gamble, M / Cohen, J	A	A	P
PE 099	3-0-0	Intercollegiate Volleyball Team <i>Open to NCAA eligible students only</i>	01	Gardner, T	A	A	P
PHYSICS							
Ph 001C	4-0-5	Classical Mechanics and Electromagnetism <i>Sections 1-5 Practical Track, lectures will be held WF 3-4pm, recitations will be held MR 3-4pm. // Sections 6-10 Analytical Track lectures WF 11-noon, regular recitations (6-9) held MR 1-2pm and advanced recitation (10) held MR 3-4pm.</i>	01	Alicea, J	A	A	
			02	Alicea, J	A	A	
			03	Alicea, J	A	A	
			04	Alicea, J	A	A	
			05	Alicea, J	A	A	
			06	Hsieh, D	WF 11:00 - 11:55	A	
					MR 13:00 - 13:55	A	
			07	Hsieh, D	WF 11:00 - 11:55	A	
					MR 13:00 - 13:55	A	
			08	Hsieh, D	WF 11:00 - 11:55	A	
		MR 13:00 - 13:55	A				
		09	Hsieh, D	WF 11:00 - 11:55	A		
				MR 13:00 - 13:55	A		
		10	Hsieh, D	WF 11:00 - 11:55	A		
				MR 15:00 - 15:55	A		
Ph 002C	4-0-5	Waves, Quantum Mechanics, and Statistical Physics <i>Maximum enrollment: 35 students per section</i>	01	Adhikari, R	TR 11:00 - 11:55	A	
					WF 11:00 - 11:55	A	
			02	Adhikari, R	TR 11:00 - 11:55	A	
					WF 13:00 - 13:55	A	
		03	Adhikari, R	TR 11:00 - 11:55	A		
				WF 15:00 - 15:55	A		
Ph 003	0-3-3	Introductory Physics Laboratory <i>Maximum enrollment: 24 students per section</i>	01	Black, E / Libbrecht, K	W 13:00 - 15:55	A	
					OM,M 14:00 - 14:55	A	
			02	Black, E / Libbrecht, K	OM,M 14:00 - 14:55	A	
				R 13:00 - 15:55	A		

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PHYSICS							
Ph 003	0-3-3	Introductory Physics Laboratory <i>Maximum enrollment: 24 students per section</i>	03	Black, E / Libbrecht, K	F 13:00 - 15:55 OM,M 14:00 - 14:55	A A	
Ph 008C	0-3-0	Experiments in Electromagnetism	01	Spiropulu, M	A	A	P
FS/Ph 011C	2-0-4	Freshman Seminar: Beyond Physics	01	Phillips, R	A	A	P
Ph 012C	4-0-5	Waves, Quantum Physics, and Statistical Mechanics	01	Patterson, R	TR 10:30 - 11:55	A	G
Ph 020	0-6-0	Computational Physics Laboratory I	01	Mach, C / Weinstein, A	OM,M 15:00 - 15:55	A	P
Ph 021	0-6-0	Computational Physics Laboratory II	01	Mach, C / Weinstein, A	OM,M 15:00 - 15:55	A	P
Ph 022	0-6-0	Computational Physics Laboratory III	01	Mach, C / Weinstein, A	OM,M 15:00 - 15:55	A	P
Ph 070	2-0-4	Oral and Written Communication <i>maximum enrollment: 9 students</i>	01	Hitlin, D	T 14:00 - 15:55	A	G
Ph 077A	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	A	A	
Ph 077B	0-5-4	Advanced Physics Laboratory <i>class cancelled</i>	01	Black, E / Libbrecht, K	A	A	
Ph 077C	0-5-4	Advanced Physics Laboratory <i>class cancelled</i>	01	Black, E / Libbrecht, K	A	A	
Ph 078C	9-0-0	Senior Thesis (Experiment)	01	Libbrecht, K	A	A	
Ph 079C	+	Senior Thesis (Theory)	01	Libbrecht, K	A	A	P
Ph 101	3-0-6	Order-of-Magnitude Physics	01	Phinney, E	MW 13:00 - 14:25	A	

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PHYSICS							
Ph 106C	4-0-5	Topics in Classical Physics	01	Hutzler, N / Golwala, S	MWF 11:00 - 11:55	A	
APh/Ph/Ae 116	3-0-6	Physics of Thermal and Mass Transport in Hydrodynamic Systems <i>class cancelled</i>	01	Troian, S	A	A	
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	A	P
Ph 121C	0-6-0	Computational Physics Lab	01	Refael, G	OM,T 10:30 - 11:25 TR 10:30 - 11:25	A A	P
Ph 125C	4-0-5	Quantum Mechanics	01	Chen, Y	MWF 10:00 - 10:55	A	P
Ph 136C	3-0-6	Applications of Classical Physics	01	Teukolsky, S	TR 13:00 - 14:25	A	
APh/Ph 138A	3-0-6	Quantum Hardware and Techniques	01	Endres, M / Faraon, A / Hsieh, D / Nad Perge, S	TR 09:00 - 10:25	A	
Ph 171	+	Reading and Independent Study	01	Adhikari, R	A	A	P
			02	Alicea, J	A	A	P
			03	Atwater, H	A	A	P
			04	Bernardi, M	A	A	P
			05	Bock, J	A	A	P
			06	Guadalupe Dos Santos Lins Brandao, F	A	A	P
			07	Carroll, S	A	A	P
			08	Chen, X	A	A	P
			09	Chen, Y	A	A	P
			10	Cheung, C	A	A	P
			11	Eisenstein, J	A	A	P
			12	Endres, M	A	A	P
			13	Filippone, B	A	A	P
			14	Golwala, S	A	A	P
			15	Gukov, S	A	A	P

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PHYSICS							
Ph 171	+	Reading and Independent Study	16	Harrison, F	A	A	P
			17	Hitlin, D	A	A	P
			18	Hopkins, P	A	A	P
			19	Hsieh, D	A	A	P
			20	Hunt, M	A	A	P
			21	Hutzler, N	A	A	P
			22	Kapustin, A	A	A	P
			23	Kimble, H	A	A	P
			24	Kitaev, A	A	A	P
			25	Knutson, H	A	A	P
			26	Libbrecht, K	A	A	P
			27	Martin, C	A	A	P
			28	Mawet, D	A	A	P
			29	Motrunich, O	A	A	P
			30	Nad Perge, S	A	A	P
			31	Newman, H	A	A	P
			32	Oguri, H	A	A	P
			33	Painter, O	A	A	P
			34	Patterson, R	A	A	P
			35	Phillips, R	A	A	P
			36	Phinney, E	A	A	P
			37	Politzer, H	A	A	P
			38	Porter, F	A	A	P
			39	Preskill, J	A	A	P
			40	Prince, T	A	A	P
			41	Refael, G	A	A	P
			42	Rosenbaum, T	A	A	P
			43	Roukes, M	A	A	P
			44	Scherer, A	A	A	P
			45	Schwab, K	A	A	P
			46	Schwarz, J	A	A	P
			47	Simmons-Duffin, D	A	A	P
			48	Spiropulu, M	A	A	P

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PHYSICS							
Ph 171	+	Reading and Independent Study	49	Stone, E	A	A	P
			50	Teukolsky, S	A	A	P
			51	Trojan, S	A	A	P
			52	Weinstein, A	A	A	P
			53	Wise, M	A	A	P
			54	Yeh, N	A	A	P
			55	Yue, Y	A	A	P
			56	Zmuidzinas, J	A	A	P
Ph 172	+	Research in Physics	01	Adhikari, R	A	A	P
			02	Atwater, H	A	A	P
			03	Bock, J	A	A	P
			04	Eisenstein, J	A	A	P
			05	Endres, M	A	A	P
			06	Filippone, B	A	A	P
			07	Golwala, S	A	A	P
			08	Harrison, F	A	A	P
			09	Hitlin, D	A	A	P
			10	Hsieh, D	A	A	P
			11	Hunt, M	A	A	P
			12	Hutzler, N	A	A	P
			13	Kimble, H	A	A	P
			14	Kirby, E	A	A	P
			15	Knutson, H	A	A	P
			16	Libbrecht, K	A	A	P
			17	Martin, C	A	A	P
			18	Mawet, D	A	A	P
			19	Nad Perge, S	A	A	P
			20	Newman, H	A	A	P
			21	Oguri, H	A	A	P
			22	Painter, O	A	A	P
			23	Patterson, R	A	A	P
			24	Phillips, R	A	A	P
			25	Porter, F	A	A	P

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PHYSICS							
Ph 172	+	Research in Physics	26	Prince, T	A	A	P
			27	Rosenbaum, T	A	A	P
			28	Roukes, M	A	A	P
			29	Scherer, A	A	A	P
			30	Schwab, K	A	A	P
			31	Spiropulu, M	A	A	P
			32	Stone, E	A	A	P
			33	Weinstein, A	A	A	P
			34	Yeh, N	A	A	P
			35	Zmuidzinas, J	A	A	P
			36	Yue, Y	A	A	P
			37	Bellan, P	A	A	P
			38	Wise, M	A	A	P
			39	Bernardi, M	A	A	P
			40	Chen, X	A	A	P
			41	Chen, Y	A	A	P
			42	Cheung, C	A	A	P
			43	Guadalupe Dos Santos	A	A	P
				Lins Brandao, F			
			44	Gukov, S	A	A	P
			45	Hopkins, P	A	A	P
			46	Kapustin, A	A	A	P
			47	Preskill, J	A	A	P
			48	Refael, G	A	A	P
			49	Simmons-Duffin, D	A	A	P
			50	Ravi, V	A	A	P
			51	Zurek, K	A	A	P
			52	Faraon, A	A	A	P
			53	Alicea, J	A	A	P
			54	Chan, G	A	A	P
			55	Teukolsky, S	A	A	P
56	Chatzioannou, K	A	A	P			

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PHYSICS							
Ph 198	3-0-6	Special Topics in Physics: Nuclear Physics	01	Filippone, B	TR 10:30 - 11:55	A	P
Ph 201	3-0-6	Candidacy Physics Fitness	01	Endres, M	F 14:30 - 16:25	A	P
Ph 205C	3-0-6	Relativistic Quantum Field Theory	01	Kapustin, A	MW 10:30 - 11:55	A	P
Ph/APh 223B	3-0-6	Advanced Condensed-Matter Physics	01	Kitaev, A	MW 09:00 - 10:25	A	
Ph 230B	3-0-6	Elementary Particle Theory	01	Oguri, H	MW 09:00 - 10:25	A	
Ph 300	+	Thesis Research	01	Adhikari, R	A	A	P
			02	Alicea, J	A	A	P
			03	Atwater, H	A	A	P
			04	Bernardi, M	A	A	P
			05	Bock, J	A	A	P
			06	Guadalupe Dos Santos Lins Brandao, F	A	A	P
			07	Carroll, S	A	A	P
			08	Chen, X	A	A	P
			09	Chen, Y	A	A	P
			10	Cheung, C	A	A	P
			11	Eisenstein, J	A	A	P
			12	Endres, M	A	A	P
			13	Filippone, B	A	A	P
			14	Golwala, S	A	A	P
			15	Gukov, S	A	A	P
			16	Harrison, F	A	A	P
			17	Hitlin, D	A	A	P
			18	Hopkins, P	A	A	P
			19	Hsieh, D	A	A	P
			20	Hunt, M	A	A	P
			21	Hutzler, N	A	A	P

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PHYSICS							
Ph 300	+	Thesis Research	22	Kapustin, A	A	A	P
			23	Kimble, H	A	A	P
			24	Kitaev, A	A	A	P
			25	Knutson, H	A	A	P
			26	Libbrecht, K	A	A	P
			27	Marcolli, M	A	A	P
			28	Martin, C	A	A	P
			29	Mawet, D	A	A	P
			30	Motrunich, O	A	A	P
			31	Nad Perge, S	A	A	P
			32	Newman, H	A	A	P
			33	Oguri, H	A	A	P
			34	Painter, O	A	A	P
			35	Patterson, R	A	A	P
			36	Phillips, R	A	A	P
			37	Phinney, E	A	A	P
			38	Politzer, H	A	A	P
			39	Porter, F	A	A	P
			40	Preskill, J	A	A	P
			41	Prince, T	A	A	P
			42	Refael, G	A	A	P
			43	Rosenbaum, T	A	A	P
			44	Roukes, M	A	A	P
			45	Scherer, A	A	A	P
			46	Schwab, K	A	A	P
			47	Schwarz, J	A	A	P
			48	Scoville, N	A	A	P
			49	Simmons-Duffin, D	A	A	P
			50	Spiropulu, M	A	A	P
			51	Stone, E	A	A	P
			52	Teukolsky, S	A	A	P
			53	Troian, S	A	A	P
54	Weinstein, A	A	A	P			

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PHYSICS							
Ph 300	+	Thesis Research	55	Wise, M	A	A	P
			56	Yeh, N	A	A	P
			57	Yue, Y	A	A	P
			58	Zmuidzinas, J	A	A	P
			59	Ravi, V	A	A	P
			60	Chatziioannou, K	A	A	P
POLITICAL SCIENCE							
PS 012	3-0-6	Introduction to Political Science <i>maximum enrollment: 54 students</i>	01	Kiewiet, D	MWF 13:00 - 13:55	A	
BEM/Ec/PS 080	1-0-0	Frontiers in Social Sciences	01	Cvitanic, J	M 12:00 - 12:55	A	P
PS 097	+	Undergraduate Research <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P
PS 099A	3-0-6	Political Science Research Seminar <i>Designated as Writing Intensive Course // Instructor permission required prior to registering</i>	01	Staff	A	A	
PS 099B	3-0-6	Political Science Research Seminar <i>Designated as Writing Intensive Course // Instructor permission required prior to registering</i>	01	Alvarez, R	A	A	
PS 120	3-0-6	American Electoral Behavior and Party Strategy <i>Designated as Writing Intensive Course</i>	01	Alvarez, R	MW 10:30 - 11:55	A	G
PS 139	3-0-6	Comparative Politics	01	Lopez-Moctezuma Jassan, G	MW 09:00 - 10:25	A	G
PS 141B	3-0-6	A History of Budgetary Politics in the United States <i>designated as Writing Intensive course // maximum enrollment: 75 students</i>	01	Kiewiet, D	TR 14:30 - 15:55	A	

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POLITICAL SCIENCE							
Ec/PS 160C	3-3-3	Laboratory Experiments in the Social Sciences <i>Taught concurrently with SS 260 // Completion of Ec/PS 160AB required.//Maximum enrollment: 10 students</i>	01	Plott, C	TR 09:00 - 10:25	A	G
PS/Ec 172	3-0-6	Game Theory	01	Tamuz, O	TR 13:00 - 14:25	A	
PSYCHOLOGY							
Psy013	3-0-6	Introduction to Cognitive Neuroscience <i>maximum enrollment: 100 students</i>	01	Mobbs, D	TR 10:30 - 11:55	A	
CNS/Psy/Bi 102B	3-0-6	Brains, Minds, and Society	01	O'Doherty, J	MW 14:30 - 15:55	A	
Bi/CNS/NB/Psy 150	4-0-6	Introduction to Neuroscience	01	Adolphs, R / Lester, H	R 13:00 - 13:55 MWF 10:00 - 10:55	A A	G
			02	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 15:00 - 15:55	A A	G
			03	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 16:00 - 16:55	A A	G
			04	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 19:00 - 19:55	A A	G
CNS/Bi/Psy/NB 176	4-0-5	Cognition	01	Shimojo, S	WF 10:00 - 11:55	A	
Psy/Bi/CNS 255	3-0-6	Topics in Emotion and Social Cognition	01	Mobbs, D	W 10:00 - 12:55	A	G
Psy283C	1.5-0-1.5	Graduate Proseminar in Social and Decision Neuroscience <i>this course is only open to graduate students in the Social and Decision Neuroscience, Computational and Neural Systems and Social Science PhD programs</i>	01	Mobbs, D	T 14:30 - 15:55	A	P

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PSYCHOLOGY							
SS/Psy/CNS 285	3-0-0	Topics in Social, Cognitive, and Decision Sciences	01	Pomatto, L	M 19:00 - 19:55	A	P
SCIENTIFIC AND ENGINEERING COMMUNICATION							
SEC010	3-0-0	Technical Seminar Presentations <i>Open to E&AS Seniors only // Maximum enrollment: 18 students per section // to be added to the waitlist after class fills, go to http://registrar.caltech.edu/SEC10WaitlistForm</i>	01	Javier, R	MWF 09:00 - 09:55	A	G
			02	Javier, R	MWF 10:00 - 10:55	A	G
			03	Javier, R	MWF 11:00 - 11:55	A	G
SEC011	1-0-2	Written Academic Communication in Engineering and Applied Science <i>Open to E&AS seniors only // Maximum enrollment: 20 students per section // section 1 cancelled // to be added to waitlist go to http://registrar.caltech.edu/SEC11-12-13WaitlistForm</i>	01	Staff	A	A	G
			02	Meyer, V	W 09:00 - 09:55	A	G
SEC012	1-0-2	Written Professional Communication in Engineering and Applied Science <i>Open to E&AS seniors only // Maximum enrollment: 20 students // to be added to waitlist go to http://registrar.caltech.edu/SEC11-12-13WaitlistForm</i>	01	Voong, L	T 11:00 - 11:55	A	G
SEC013	1-0-2	Written Communication about Engineering and Applied Sciences to Non-Experts <i>Open to E&AS seniors only // Maximum enrollment: 20 students // to be added to waitlist go to http://registrar.caltech.edu/SEC11-12-13WaitlistForm</i>	01	Burkett, E	W 16:00 - 16:55	A	
E/SEC 102	3-0-6	Scientific and Technology Entrepreneurship <i>maximum enrollment: 40 students // juniors and above only</i>	01	Wilson, N	F 13:00 - 15:55	A	G
SOCIAL SCIENCE							

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SOCIAL SCIENCE							
SS 201C	3-0-6	Analytical Foundations of Social Science <i>Open to Social Science graduate students only.</i>	01	Pomatto, L	TR 10:30 - 11:55	A	G
SS 202C	3-0-6	Political Theory <i>Open to Social Science graduate students only.</i>	01	Lopez-Moctezuma Jassan, G	TR 13:00 - 14:25	A	G
SS 205C	3-0-6	Foundations of Economics <i>Open to Social Science graduate students only.</i>	01	Palfrey, T	MW 10:30 - 11:55	A	G
SS 210C	3-0-6	Foundations of Political Economy	01	Hirsch, A	MW 14:30 - 15:55	A	G
SS 211C	3-0-6	Advanced Economic Theory	01	Saito, K	MW 17:00 - 18:25	A	G
SS 212C	3-0-6	Experimental Economics	01	Agranov, M	MW 09:00 - 10:25	A	G
SS 222C	3-0-6	Econometrics	01	Sherman, R	MW 13:00 - 14:25	A	G
SS 223C	3-0-6	Topics in Theoretical and Applied Econometrics <i>Open to graduate students only</i>	01	Xin, Y	R 09:00 - 11:55	A	G
SS 228C	3-0-6	Applied Empirical Methods in the Social Sciences	01	Lopez-Moctezuma Jassan, G	MW 13:00 - 14:25	A	G
SS 229B	3-0-6	Theoretical and Quantitative Dimensions of Historical Development <i>class cancelled</i>	01	Rosenthal, J	A	A	G
SS 260	3-3-3	Experimental Methods of Political Economy	01	Plott, C	TR 09:00 - 10:25	A	G
SS 282C	1.5-0-1.5	Graduate Proseminar in Social Science	01	Lopez-Moctezuma Jassan, G	M 14:30 - 15:55	A	P
SS/Psy/CNS 285	3-0-0	Topics in Social, Cognitive, and Decision Sciences	01	Pomatto, L	M 19:00 - 19:55	A	P
SS 300	+	Research in Social Science	01 03	Cvitanic, J Echenique, F	A A	A A	P P

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SOCIAL SCIENCE										
SS 300	+	Research in Social Science	04	Hoffman, P	A	A	P			
			05	Jin, J	A	A	P			
			06	Katz, J	A	A	P			
			07	Hoffman, P	A	A	P			
			08	Tamuz, O	A	A	P			
			09	Camerer, C	A	A	P			
			10	Lester, H	A	A	P			
			11	Palfrey, T	A	A	P			
			12	Kiewiet, D	A	A	P			
			13	Wilkie, S	A	A	P			
			14	Alvarez, R	A	A	P			
			15	Plott, C	A	A	P			
			16	Hirsch, A	A	A	P			
			17	Agranov, M	A	A	P			
			18	Rosenthal, J	A	A	P			
			19	Shum, M	A	A	P			
			20	Rangel, A	A	A	P			
			21	Yariv, L	A	A	P			
			22	Gillen, B	A	A	P			
			23	O'Doherty, J	A	A	P			
			24	Perona, P	A	A	P			
			25	Adolphs, R	A	A	P			
			26	Shimojo, S	A	A	P			
			27	Jin, J	A	A	P			
			28	Mobbs, D	A	A	P			
			29	Sprenger, C	A	A	P			
			30	Nielsen, K	A	A	P			
			STUDENT ACTIVITIES							
			SA 016C	0-3-0	Cooking Basics	01	Mannion, T	R 18:30 - 21:25	A	P
			SA 042	0-2-2	Computer Science Education in K-14 Settings Practicum	01	Ralph, C / Wierman, A	MWF 14:00 - 14:55	A	P

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STUDENT ACTIVITIES							
SA 080C	1-1-1	Health Advocates <i>maximum enrollment: 24 students per section</i>	01	Stapf, M	W 19:00 - 21:55	A	P
			02	Stapf, M	R 19:00 - 21:55	A	P
SA 081A	1-1-1	Peer Advocates <i>open only to Peer Advocates // maximum enrollment: 40 students</i>	01	Coleman, L	R 16:00 - 17:55	A	P
STUDY ABROAD							
CAM100	36-0-0	Cambridge Scholars Program	01	Staff	A	A	P
CPH100	36-0-0	Copenhagen Scholars Program	01	Staff	A	A	P
VISUAL CULTURE							
VC 070	3-0-6	Traditions of Japanese Art <i>maximum enrollment: 15 students</i>	01	Wolfgram, J	MWF 11:00 - 11:55	A	
VC 175	3-0-6	The Art of Science <i>maximum enrollment: 15 students</i>	01	Jacobson, B	TR 10:30 - 11:55	A	
WRITING							
Wr 050	+	Tutorial in Writing	01	Hall, S	A	A	P
En/Wr 084	3-0-6	Communicating Science to Non-Experts <i>maximum enrollment: 15 students // graduate students can only enroll with instructor's permission</i>	01	Hall, S	TR 13:00 - 14:25	A	
ESL/Wr 107	3-0-3	Graduate Writing Seminar <i>maximum enrollment: 15 students</i>	01	Daley, C	MW 16:00 - 17:25	A	P