

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

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

TIMES/LOCATION/UNITS

A = Hours/Location to be Arranged

+ = Units to be Arranged

OM = Organizational Meeting

GRADING SCHEME

G = Grades Only

P = Pass/Fail Only

Blank = Grades/may exercise P/F

DAYS OF THE WEEK

M = Monday

T = Tuesday

W = Wednesday

R = Thursday

F = Friday

S = Saturday

U = Sunday

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Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
AEROSPACE							
Ae 100	+	Research in Aerospace	01	Gharib, M	A	A	P
			02	McKeon, B	A	A	P
			03	Chung, S	A	A	P
			04	Pellegrino, S	A	A	P
			05	Blanquart, G	A	A	P
			06	Shepherd, J	A	A	P
			07	Meiron, D	A	A	P
			08	Meiron, D	A	A	P
			09	Bae, H	A	A	P
Ae/APh/CE/ME 101B	3-0-6	Fluid Mechanics	01	Colonus, T	MWF 10:00 - 10:55	135 GTL	G
Ae/AM/CE/ME 102B	3-0-6	Mechanics of Structures and Solids	01	Rosakis, A	TR 09:00 - 10:25	135 GTL	G
Ae 103B	3-0-6	Aerospace Control Systems <i>taught concurrently with CDS112</i>	01	Murray, R	MWF 14:00 - 14:55	213 ANB	
Ae/APh 104B	0-6-3	Experimental Methods	01	Gharib, M	A	A	G
Ae 105B	2-4-3	Space Engineering	01	Watkins, M	TR 14:30 - 15:55	232 GUG	
Ae 121B	3-0-6	Space Propulsion	01	Polk, J	TR 13:00 - 14:25	232 GUG	
Ae 150B	1-0-0	Aerospace Engineering Seminar	01	Austin, J	M 13:00 - 13:55	133 GUG	P
EE/Ae 157B	3-0-6	Introduction to the Physics of Remote Sensing	01	Rosen, P	TR 14:30 - 15:55	105 ANB	
Ae 200	+	Advanced Research in Aerospace	01	Schneider, T	A	A	P
			02	Burdick, J	A	A	P
			03	Colonus, T	A	A	P
			04	Dimotakis, P	A	A	P
			05	Gharib, M	A	A	P

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Ae 200	+	Advanced Research in Aerospace	06	Hornung, H	A	A	P
			07	Bhattacharya, K	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	McKeon, B	A	A	P
			15	Pellegrino, S	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	Blanquart, G	A	A	P
			22	Kochmann, D	A	A	P
			23	Greer, J	A	A	P
			24	Gurnis, M	A	A	P
			25	Minnich, A	A	A	P
			26	Johnson, J	A	A	P
			27	Austin, J	A	A	P
			28	Kulkarni, S	A	A	P
			29	Chung, S	A	A	P
			30	Asimaki, D	A	A	P
			31	Dabiri, J	A	A	P
			32	Meiron, D	A	A	P
			33	Hunt, M	A	A	P
			34	Dickinson, M	A	A	P
			35	Mawet, D	A	A	P
			36	Bae, H	A	A	P
			37	Kornfield, J	A	A	P

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AEROSPACE							
Ae 201B	3-0-6	Advanced Fluid Mechanics <i>class cancelled</i>	01	Dimotakis, P	A	A	P
Ae 208B	1-0-0	GALCIT Colloquium	01	Dabiri, J	F 15:00 - 15:55	133 GUG	P
Ae/ACM/ME 232B	3-0-6	Computational Fluid Dynamics	01	Meiron, D	MWF 14:00 - 14:55	384 FIR	
Ae 239A	3-0-6	Turbulence	01	Bae, H	TR 10:30 - 11:55	384 FIR	
Ae 240	+	Special Topics in Fluid Mechanics <i>Sec 1: Educational Exchange</i>	01	Austin, J	A	A	P
ME/Ge/Ae 266A	3-0-6	Fracture and Frictional Faulting	01	Lapusta, N	MW 14:30 - 15:55	115 GTL	G
ANTHROPOLOGY							
An 097	+	Undergraduate Research	01	Staff	A	A	P
An/PS 127	3-0-6	Corruption <i>maximum enrollment: 10 students // Designated as Writing Intensive Course // class full, see instructor for waitlist</i>	01	Ensminger, J	MW 14:30 - 15:55	128 BAX	G
APPLIED & COMPUTATIONAL MATH							
ACM080B	+	Undergraduate Thesis	01	Saito, K	A	A	P
			02	Bruno, O	A	A	P
			03	Anandkumar, A	A	A	P
			04	Schroeder, P	A	A	P
ACM081B	+	Undergraduate Projects in Applied and Computational Mathematics	01	Chandrasekaran, V	A	A	P
			02	Wierman, A	A	A	P
			03	Zuev, K	A	A	P
			04	Leong, O	A	A	P
			05	Hoffmann, F	A	A	P

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APPLIED & COMPUTATIONAL MATH							
ACM095A	4-0-8	Introductory Methods of Applied Mathematics for the Physical Sciences	01	Zuev, K	M 11:00 - 12:15 WF 11:00 - 12:15	119 KRK Lecture Hall BAX	
ACM100A	4-0-8	Introductory Methods of Applied Mathematics for the Physical Sciences	01	Zuev, K	M 11:00 - 12:15 WF 11:00 - 12:15	119 KRK Lecture Hall BAX	
ACM/IDS 101B	4-4-4	Methods of Applied Mathematics	01	Bruno, O	TR 14:30 - 16:25	213 ANB	
ACM105	3-0-6	Applied Real and Functional Analysis	01	Leong, O	TR 09:00 - 10:25	314 ANB	
ACM/EE 106B	3-0-9	Introductory Methods of Computational Mathematics	01	Hou, Y	TR 13:00 - 14:25	104 ANB	G
Ec/ACM/CS 112	3-0-6	Bayesian Statistics	01	Rangel, A	TR 10:30 - 11:55	155 ARM	
ACM118	3-0-9	Stochastic Processes and Regression	01	Owhadi, H	MW 13:00 - 14:25	104 ANB	G
Ma/ACM/IDS 140A	3-0-6	Probability	01	Russkikh, M	MWF 14:00 - 14:55	310 LINDE	
CS/ACM 177A	3-3-3	Discrete Differential Geometry: Theory and Applications <i>class will meet in 314 ANB on January 12th</i>	01	Schroeder, P	TR 10:30 - 11:55	104 ANB	
ACM190	+	Reading and Independent Study	01	Bruno, O	A	A	P
ACM/IDS 216	3-0-6	Markov Chains, Discrete Stochastic Processes and Applications	01	Owhadi, H	TR 09:00 - 10:25	104 ANB	G
ACM217	3-0-6	Advanced Topics in Probability: High-dimensional probability	01	Tropp, J	TR 10:30 - 11:55	213 ANB	
Ae/ACM/ME 232B	3-0-6	Computational Fluid Dynamics	01	Meiron, D	MWF 14:00 - 14:55	384 FIR	
ACM256	3-0-6	Special Topics in Applied Mathematics: Foundations of measure transport: theory and	01	Hoffmann, F / Baptista, R	MW 10:00 - 11:25	213 ANB	G

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APPLIED & COMPUTATIONAL MATH							
ACM300	+	Research in Applied and Computational Mathematics	01	Bruno, O	A	A	P
			02	Chandrasekaran, V	A	A	P
			03	Desbrun, M	A	A	P
			04	Hou, Y	A	A	P
			05	Tropp, J	A	A	P
			06	Meiron, D	A	A	P
			07	Pierce, N	A	A	P
			08	Owhadi, H	A	A	P
			09	Schroeder, P	A	A	P
			10	Hassibi, B	A	A	P
			11	Beck, J	A	A	P
			12	Stuart, A	A	A	P
			13	Graber, T	A	A	P
APPLIED MECHANICS							
Ae/AM/CE/ME 102B	3-0-6	Mechanics of Structures and Solids	01	Rosakis, A	TR 09:00 - 10:25	135 GTL	G
AM/CE/ME 150B	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	135 GTL	P
AM/CE 151	3-0-6	Dynamics and Vibration	01	Asimaki, D	TR 13:00 - 14:25	115 GTL	G
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							

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APPLIED PHYSICS							
APh/EE 023	3-0-6	Demonstration Lectures in Classical and Quantum Photonics	01	Matsko, A	WF 13:00 - 14:25	133 STL	
EE/APh 040	3-0-6	Physics of Electrical Engineering	01	Marandi, A	MW 13:00 - 14:25	B280 MRE	
APh078B	+	Senior Thesis, Experimental	01	Faraon, A	A	A	P
			02	Scherer, A	A	A	P
			03	Phillips, R	A	A	P
			04	Painter, O	A	A	P
			05	Vahala, K	A	A	P
			06	Atwater, H	A	A	P
			07	Bellan, P	A	A	P
			08	Troian, S	A	A	P
			09	Yung, Y	A	A	P
			10	Schwab, K	A	A	P
			11	Knutson, H	A	A	P
			12	Endres, M	A	A	P
			13	Hajimiri, S	A	A	P
			14	Fultz, B	A	A	P
APh079B	+	Senior Thesis, Theoretical	01	Goddard, W	A	A	P
			02	Troian, S	A	A	P
			03	Kimble, H	A	A	P
APh100	+	Advanced Work in Applied Physics	01	Atwater, H	A	A	P
			02	Faraon, A	A	A	P
			03	Painter, O	A	A	P
			04	Scherer, A	A	A	P
			05	Troian, S	A	A	P
			07	Roukes, M	A	A	P
			08	Yang, C	A	A	P
			09	Bellan, P	A	A	P
			10	Phillips, R	A	A	P
			11	Choo, H	A	A	P
			12	Minnich, A	A	A	P

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APPLIED PHYSICS							
APh100	+	Advanced Work in Applied Physics	13	Kimble, H	A	A	P
			14	Desbrun, M	A	A	P
			15	Falson, J	A	A	P
			16	Marandi, A	A	A	P
Ae/APh/CE/ME 101B	3-0-6	Fluid Mechanics	01	Colonus, T	MWF 10:00 - 10:55	135 GTL	G
Ae/APh 104B	0-6-3	Experimental Methods	01	Gharib, M	A	A	G
APh/MS 105B	3-0-6	States of Matter	01	Fultz, B	TR 09:00 - 10:25	142 KCK	
APh/EE 109	0-6-3	Introduction to the Micro/Nanofabrication Lab	01	Ghaffari, A	OM,W 16:00 - 16:55	104 WAT	
APh110	2-0-0	Topics in Applied Physics	01	Bellan, P	M 12:00 - 12:55	104 WAT	P
APh/Ph 112A	3-0-6	Noise and Stochastic Resonance	01	Troian, S	TR 14:30 - 15:55	111 KCK	
APh114B	3-0-6	Solid-State Physics	01	Nad Perge, S	MWF 09:00 - 09:55	104 WAT	
Ph/APh/EE/BE 118A	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	387 LINDE	
MS/APh 122	0-4-5	Diffraction, Imaging, and Structure	01	Ahn, C	OM,T 13:00 - 13:55	111 KCK	
Ph/APh 137B	3-0-6	Atoms and Photons	01	Endres, M	TR 10:30 - 11:55	387 LINDE	
APh156B	3-0-6	Plasma Physics	01	Bellan, P	MW 14:30 - 15:55	104 WAT	
EE/APh 158	3-0-6	Quantum Electrical Circuits	01	Mirhosseini, M	MW 10:30 - 11:55	B280 MRE	

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APPLIED PHYSICS							
BE/Bi/APh 161	3-0-9	Physical Biology of the Cell	01	Bois, J	MW 14:30 - 15:55	100 - Rock Auditorium BRD	
MS/APh 162	3-0-6	Electronic Materials	01	Falson, J	TR 10:30 - 11:55	104 WAT	
APh/EE 190A	3-0-6	Quantum Electronics	01	Vahala, K	TR 13:00 - 14:25	142 KCK	
APh200	+	Applied Physics Research	01	Atwater, H	A	A	P
			02	Fultz, B	A	A	P
			03	Bellan, P	A	A	P
			04	Chen, Y	A	A	P
			05	Johnson, W	A	A	P
			06	Schwab, K	A	A	P
			07	Goddard, W	A	A	P
			08	Lewis, N	A	A	P
			09	Troian, S	A	A	P
			10	Preskill, J	A	A	P
			11	Refael, G	A	A	P
			12	Faraon, A	A	A	P
			13	Lewis, N	A	A	P
			14	Alicea, J	A	A	P
			15	Hsieh, D	A	A	P
			16	Minnich, A	A	A	P
			17	Yang, C	A	A	P
			18	Gharib, M	A	A	P
			19	Painter, O	A	A	P
			20	Phillips, R	A	A	P
			21	Bernardi, M	A	A	P
			22	Kimble, H	A	A	P
			23	Roukes, M	A	A	P
			24	Nad Perge, S	A	A	P
			25	Scherer, A	A	A	P
			26	Hutzler, N	A	A	P

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APh200	+	Applied Physics Research	28	Yeh, N	A	A	P
			29	Endres, M	A	A	P
			30	Vahala, K	A	A	P
			31	Yariv, A	A	A	P
			32	Rosenbaum, T	A	A	P
			33	Adhikari, R	A	A	P
			34	Meiron, D	A	A	P
			35	Elowitz, M	A	A	P
			36	Bock, J	A	A	P
			37	Cushing, S	A	A	P
			38	Falson, J	A	A	P
			39	Motrunich, O	A	A	P
			40	Spiropulu, M	A	A	P
			41	Marandi, A	A	A	P
			42	Daraio, C	A	A	P
			43	Mirhosseini, M	A	A	P
			44	Chan, G	A	A	P
45	Schneider, T	A	A	P			
Ph/APh 223A	3-0-6	Advanced Condensed-Matter Physics	01	Alicea, J	MW 09:00 - 10:25	103 DWN	
APh300	+	Thesis Research in Applied Physics	01	Faraon, A	A	A	P
			02	Bellan, P	A	A	P
			03	Flagan, R	A	A	P
			04	Refael, G	A	A	P
			05	Snyder, G	A	A	P
			06	Troian, S	A	A	P
			07	Fultz, B	A	A	P
			08	Schwab, K	A	A	P
			09	Desbrun, M	A	A	P
			10	Hsieh, D	A	A	P
			11	Faber, K	A	A	P
			12	Hutzler, N	A	A	P

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APh300	+	Thesis Research in Applied Physics	13	Minnich, A	A	A	P
			15	Phillips, R	A	A	P
			16	Daraio, C	A	A	P
			17	Rosenbaum, T	A	A	P
			18	Roukes, M	A	A	P
			20	Scherer, A	A	A	P
			21	Chen, Y	A	A	P
			24	Vahala, K	A	A	P
			25	Yariv, A	A	A	P
			28	Painter, O	A	A	P
			29	Zmuidzinas, J	A	A	P
			30	Atwater, H	A	A	P
			31	Bernardi, M	A	A	P
			32	Nad Perge, S	A	A	P
33	Marandi, A	A	A	P			
34	Falson, J	A	A	P			
ASTROPHYSICS							
Ay 021	3-0-6	Galaxies and Cosmology <i>Not open to seniors. Open to freshmen with instructor approval.</i>	01	Djorgovski, S	MWF 15:00 - 15:55	Hameetman Aud CHL	
Ay 031	1-0-2	Writing in Astronomy	01	Hallinan, G	F 15:00 - 15:55	211 CHL	G
Ay 043	+	Reading in Astronomy and Astrophysics	01	Staff	A	A	P
Ay 078B	+	Senior Thesis	01	Bock, J	A	A	P
			02	Fuller, J	A	A	P
			03	Hillenbrand, L	A	A	P
			04	Steidel, C	A	A	P
			05	Cohen, J	A	A	P
			06	Phinney, E	A	A	P
			07	Howard, A	A	A	P

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ASTROPHYSICS							
Ay 078B	+	Senior Thesis	08	Martin, C	A	A	P
			09	Prince, T	A	A	P
			10	Harrison, F	A	A	P
			11	Hallinan, G	A	A	P
			12	Scoville, N	A	A	P
			13	Hopkins, P	A	A	P
			14	Djorgovski, S	A	A	P
			15	Knutson, H	A	A	P
			16	Kasliwal, M	A	A	P
			17	Mawet, D	A	A	P
			18	Blake, G	A	A	P
			19	Ravi, V	A	A	P
			Ay 102	3-0-6	Physics of the Interstellar Medium	01	Kulkarni, S
Ay 111B	1-0-0	Introduction to Current Astrophysics Research	01	Kasliwal, M	F 11:00 - 11:55	219 CHL	P
Ge/Ay 117	3-0-6	Bayesian Statistics and Data Analysis	01	Knutson, H	MWF 14:00 - 14:55	162 SMD	
Ay 122C	3-0-6	Astronomical Measurements and Instrumentation	01	Ravi, V	TR 16:00 - 17:25	219 CHL	
Ay 123	3-0-6	Structure and Evolution of Stars	01	Howard, A	MW 14:30 - 15:55	219 CHL	
Ay 126	3-0-6	Interstellar and Intergalactic Medium	01	Steidel, C	TR 14:30 - 15:55	219 CHL	
Ge/Ay 132	3-0-6	Atomic and Molecular Processes in Astronomy and Planetary Sciences	01	Blake, G	TR 14:30 - 15:55	162 SMD	
Ge/Ay 137	3-0-6	Planetary Physics	01	Batygin, K	MWF 13:00 - 13:55	162 SMD	
Ay 141B	1-0-2	Research Conference in Astronomy	01	Steidel, C	F 16:00 - 16:55	Hameetman Aud CHL	P

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ASTROPHYSICS										
Ay 142	+	Research in Astronomy and Astrophysics	01	Fuller, J	A	A	P			
			02	Blake, G	A	A	P			
			03	Harrison, F	A	A	P			
			04	Brown, M	A	A	P			
			05	Phinney, E	A	A	P			
			06	Djorgovski, S	A	A	P			
			07	Howard, A	A	A	P			
			08	Kasliwal, M	A	A	P			
			09	Hillenbrand, L	A	A	P			
			10	Fuller, J	A	A	P			
			11	Kulkarni, S	A	A	P			
			12	Hallinan, G	A	A	P			
			13	Martin, C	A	A	P			
			14	Bock, J	A	A	P			
			15	Golwala, S	A	A	P			
			16	Prince, T	A	A	P			
			17	Hopkins, P	A	A	P			
			18	Kirby, E	A	A	P			
			19	Sargent, A	A	A	P			
			20	Ravi, V	A	A	P			
			21	Readhead, A	A	A	P			
			22	Dore, O	A	A	P			
			23	Steidel, C	A	A	P			
			27	Stevenson, D	A	A	P			
			28	Cohen, J	A	A	P			
			29	Knutson, H	A	A	P			
			30	Mawet, D	A	A	P			
			31	Batygin, K	A	A	P			
			Ay 143	+	Reading and Independent Study	01	Sargent, A	A	A	P
						02	Kulkarni, S	A	A	P
						04	Hopkins, P	A	A	P
06	Brown, M	A				A	P			
07	Blake, G	A				A	P			

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ASTROPHYSICS							
Ay 143	+	Reading and Independent Study	08	Knutson, H	A	A	P
			09	Batygin, K	A	A	P
Ay 144	+	Independent Writing in Astronomy	01	Golwala, S	A	A	P
			02	Mawet, D	A	A	P
			03	Dore, O	A	A	P
Ge/Ay 159	3-0-6	Astrobiology	01	Yung, Y	MWF 11:00 - 11:55	162 SMD	
BIOCHEMISTRY & MOLECULAR BIOPHYSICS							
BMB/Ch 202B	1-0-0	Biochemistry Seminar Course <i>To be held on Biochemistry Seminar days from 12-1pm (approx. 1-2 per month).</i>	01	Clemons, W	R 12:00 - 12:55	320 BRN	P
Bi/BMB 251B	+	Current Research in Cellular and Molecular Biology	01	Hay, B	A	A	P
BMB299	+	Graduate Research	01	Mayo, S	A	A	P
			02	Pachter, L	A	A	P
			03	Rothmund, P	A	A	P
			04	Bjorkman, P	A	A	P
			05	Arnold, F	A	A	P
			06	Rees, D	A	A	P
			07	Greer, J	A	A	P
			08	Campbell, J	A	A	P
			09	Phillips, R	A	A	P
			10	Hay, B	A	A	P
			11	Hsieh-Wilson, L	A	A	P
			12	Phillips, R	A	A	P
			13	Parker, C	A	A	P
			14	Barton, J	A	A	P
			15	Heath, J	A	A	P
			17	Anderson, D	A	A	P
			18	Dougherty, D	A	A	P
			19	Mazmanian, S	A	A	P

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BIOCHEMISTRY & MOLECULAR BIOPHYSICS							
BMB299	+	Graduate Research	20	Shan, S	A	A	P
			21	Jensen, G	A	A	P
			22	Elowitz, M	A	A	P
			23	Dervan, P	A	A	P
			24	Dunphy, W	A	A	P
			25	Tirrell, D	A	A	P
			26	Chong, S	A	A	P
			27	Meyerowitz, E	A	A	P
			28	Rothenberg, E	A	A	P
			29	Clemons, W	A	A	P
			30	Leadbetter, J	A	A	P
			31	Kennedy, M	A	A	P
			32	Lester, H	A	A	P
			33	Murray, R	A	A	P
			34	Mazmanian, S	A	A	P
			35	Baltimore, D	A	A	P
			36	Wang, Z	A	A	P
			37	Gharib, M	A	A	P
			38	Miller, T	A	A	P
			39	Sternberg, P	A	A	P
			40	Davis, M	A	A	P
			41	Pierce, N	A	A	P
			42	Gray, H	A	A	P
			43	Roukes, 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	Shapiro, M	A	A	P
			51	Ismagilov, R	A	A	P
			52	Meister, M	A	A	P

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BIOCHEMISTRY & MOLECULAR BIOPHYSICS										
BMB299	+	Graduate Research	53	Chan, D	A	A	P			
			54	Zinn, K	A	A	P			
			55	Ondrus, A	A	A	P			
			56	Voorhees, R	A	A	P			
			57	Winfrey, E	A	A	P			
			58	Wagenaar, D	A	A	P			
			60	Parker, J	A	A	P			
			61	Thomson, M	A	A	P			
			62	Semlow, D	A	A	P			
			63	Stathopoulos, A	A	A	P			
			64	Wang, K	A	A	P			
			BIOENGINEERING							
			BE/Bi 025	3-0-6	Biophysical Chemistry	01	Bois, J	TR 09:00 - 10:25	100 - Rock Auditorium BRD	
BE 098	+	Undergraduate Research in Bioengineering <i>If your research advisor does not appear below, please contact the Office of the Registrar.</i>	01	Arnold, F	A	A	P			
			02	Mayo, S	A	A	P			
			03	Burdick, J	A	A	P			
			04	Kennedy, M	A	A	P			
			05	Beauchamp, J	A	A	P			
			06	Shimojo, S	A	A	P			
			07	Gharib, M	A	A	P			
			08	Hajimiri, S	A	A	P			
			09	Lester, H	A	A	P			
			10	Phillips, R	A	A	P			
			11	Dervan, P	A	A	P			
			12	Pierce, N	A	A	P			
			13	Gradinaru, V	A	A	P			
			14	Ondrus, A	A	A	P			
			15	Guttman, M	A	A	P			
			16	Roukes, M	A	A	P			
			17	Scherer, A	A	A	P			
			18	Tai, Y	A	A	P			

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BIOENGINEERING							
BE 098	+	Undergraduate Research in Bioengineering <i>If your research advisor does not appear below, please contact the Office of the Registrar.</i>	19	Tirrell, D	A	A	P
			20	Yang, C	A	A	P
			21	Shan, S	A	A	P
			22	Adolphs, R	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			25	Bjorkman, P	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfree, E	A	A	P
			28	Ismagilov, R	A	A	P
			29	Oka, Y	A	A	P
			30	Kornfield, J	A	A	P
			31	Baltimore, D	A	A	P
			32	Davis, M	A	A	P
			33	Sternberg, P	A	A	P
			34	Meister, M	A	A	P
			35	Aravin, A	A	A	P
			36	Qian, L	A	A	P
			37	Shapiro, M	A	A	P
			38	Mazmanian, S	A	A	P
			39	Van Valen, D	A	A	P
			40	Thomson, M	A	A	P
			41	Dickinson, M	A	A	P
			42	Wang, K	A	A	P
			43	Chou, T	A	A	P
			44	Pachter, L	A	A	P
			45	Goentoro, L	A	A	P
			46	Hay, B	A	A	P
47	Bronner Hansen, M	A	A	P			
48	Wold, B	A	A	P			
BE 099B	+	Senior Thesis in Bioengineering	01	Gradinaru, V	A	A	P
			02	Murray, R	A	A	P
			03	Elowitz, M	A	A	P

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BIOENGINEERING							
BE 099B	+	Senior Thesis in Bioengineering	04	Shapiro, M	A	A	P
			05	Winfree, E	A	A	P
ChE/BE/MedE 112	3-0-6	Creativity and Technological Innovation with Microfluidic Systems <i>Maximum enrollment: 20 students</i>	01	Ismagilov, R	TR 13:00 - 14:25	101 SCH	
Ph/APh/EE/BE 118A	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	387 LINDE	
NB/Bi/BE 155	3-0-3	Neuropharmacology	01	Lester, H	MW 09:00 - 10:25	B136 KRK	G
BE/Bi/APh 161	3-0-9	Physical Biology of the Cell	01	Bois, J	MW 14:30 - 15:55	100 - Rock Auditorium BRD	
MedE/EE/BE 168C	4-0-5	Biomedical Optics: Principles and Imaging	01	Wang, L	TF 15:30 - 17:25	142 KCK	G
Bi/BE 177	3-0-6	Principles of Modern Microscopy	01	Collazo, A	TR 10:30 - 11:55	119 KRK	
Bi/BE/CS 183	3-0-6	Introduction to Computational Biology and Bioinformatics <i>class meets in 100 BRD on February 2nd and 9th</i>	01	Pachter, L	TR 10:30 - 11:55	B180 BBB	
EE/BE/MedE 185	3-0-6	Micro/Nano Technology for Semiconductor and Medical Device	01	Tai, Y	MW 10:30 - 11:55	142 KCK	
ChE/BE/MedE 188	3-0-6	Molecular Imaging	01	Shapiro, M	W 19:00 - 21:55	113 SPL	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	100 CNRB	G
BE/CS 196A	3-6-3	Design and Construction of Programmable Molecular Systems <i>maximum enrollment: 12 students</i>	01	Qian, L	TR 13:00 - 13:55	B136 KRK	
					TR 14:00 - 15:55	B127 KRK	
BE 200	+	Research in Bioengineering	01	Arnold, F	A	A	P
			02	Troian, S	A	A	P

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BIOENGINEERING							
BE 200	+	Research in Bioengineering	03	Burdick, J	A	A	P
			04	Rothmund, P	A	A	P
			05	Dervan, P	A	A	P
			06	Goentoro, L	A	A	P
			07	Gharib, M	A	A	P
			08	Hajimiri, S	A	A	P
			09	Newman, D	A	A	P
			10	Lester, H	A	A	P
			11	Guttman, M	A	A	P
			12	Pierce, N	A	A	P
			13	Meister, M	A	A	P
			14	Goddard, W	A	A	P
			15	Ismagilov, R	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	Thomson, M	A	A	P
			22	Dickinson, M	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			25	Lois, C	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfrey, E	A	A	P
			28	Shapiro, M	A	A	P
			29	Phillips, R	A	A	P
			30	Mayo, S	A	A	P
			31	Sternberg, P	A	A	P
			32	Gradinaru, V	A	A	P
			33	Andersen, R	A	A	P
			34	Qian, L	A	A	P
			35	Kornfield, J	A	A	P

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BIOENGINEERING							
BE 200	+	Research in Bioengineering	36	Bjorkman, P	A	A	P
			37	Cai, L	A	A	P
			38	Hong, E	A	A	P
			39	Greer, J	A	A	P
			40	Pachter, L	A	A	P
			41	Mazmanian, S	A	A	P
			42	Wang, K	A	A	P
			44	Van Valen, D	A	A	P
			45	Heath, J	A	A	P
			46	Rutishauser, U	A	A	P
			47	Chan, D	A	A	P
			48	Fejes Toth, K	A	A	P
			49	Wold, B	A	A	P
			50	Emami, A	A	A	P
			51	Rothenberg, E	A	A	P
			52	Daraio, C	A	A	P
53	Demirer, G	A	A	P			
54	Shimojo, S	A	A	P			
BE 201	+	Reading the Bioengineering Literature <i>Required for first and second year BE grad students // class meets on Mondays, 12-1:30pm in CNRB 100</i>	01	Wang, K	A	A	P
BIOLOGY							
Bi 001B	3-0-6	The Biomechanics of Organismal Design <i>open by application only, apply by Nov 9th at https://forms.gle/R7GtMBAFc2ppJaKj9 // maximum enrollment: 20 students // pass/fail for all first-year students and graded only for all non-first-year students</i>	01	Dickinson, M	TWF 13:00 - 13:55	240A CNRB	
Bi 001G	3-0-6	Information Flow in Biology <i>open by application only, apply by Nov 9th at https://forms.gle/R7GtMBAFc2ppJaKj9 //</i>	01	Sternberg, P	TWF 13:00 - 13:55	340A CNRB	

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BIOLOGY							
Bi 008	3-0-6	Foundational Principles of Molecular Biology <i>Maximum enrollment: 30 students per section</i>	01	Guttman, M / Hong, E	TR 13:00 - 14:25	100 CNRB	
					W 15:00 - 15:55	130 CNRB	
			02	Guttman, M / Hong, E	TR 13:00 - 14:25	100 CNRB	
					R 19:00 - 19:55	130 CNRB	
			03	Guttman, M / Hong, E	TR 13:00 - 14:25	100 CNRB	
					F 14:00 - 14:55	130 CNRB	
Bi 021	+	Undergraduate Research with Presentation <i>minimum 12 units per term</i>	01	Dunphy, W	A	A	P
Bi 022	+	Undergraduate Research	01	Chan, D	A	A	P
			02	Quartz, S	A	A	P
			03	Allman, J	A	A	P
			04	Anderson, D	A	A	P
			05	Parker, C	A	A	P
			06	Arnold, F	A	A	P
			07	Baltimore, D	A	A	P
			08	Sternberg, P	A	A	P
			09	Lester, H	A	A	P
			10	Bjorkman, P	A	A	P
			11	Bronner Hansen, M	A	A	P
			12	Leadbetter, J	A	A	P
			13	Adolphs, R	A	A	P
			14	Shapiro, M	A	A	P
			15	Rothenberg, E	A	A	P
			16	Hay, B	A	A	P
			17	Cai, L	A	A	P
			18	Shan, S	A	A	P
			19	Campbell, J	A	A	P
			20	Clemons, W	A	A	P
			21	Stevenson, D	A	A	P
			22	Orphan, V	A	A	P
			23	Varshavsky, A	A	A	P
			24	Meyerowitz, E	A	A	P

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BIOLOGY							
Bi 022	+	Undergraduate Research	25	Meister, M	A	A	P
			26	Winfree, E	A	A	P
			27	Mazmanian, S	A	A	P
			28	Tirrell, D	A	A	P
			29	Shimojo, S	A	A	P
			30	Wold, B	A	A	P
			31	Sternberg, P	A	A	P
			32	Kennedy, M	A	A	P
			33	Newman, D	A	A	P
			34	Hsiao, E	A	A	P
			35	Gradinaru, V	A	A	P
			36	Peter Lashgari Faghani, I	A	A	P
			37	Thomson, M	A	A	P
			38	Chou, T	A	A	P
			39	Goentoro, L	A	A	P
			40	Goddard, W	A	A	P
			41	Stathopoulos, A	A	A	P
			42	Zinn, K	A	A	P
			43	Rangel, A	A	A	P
			44	Parker, J	A	A	P
			45	Davis, M	A	A	P
			46	Murray, R	A	A	P
			47	Jensen, G	A	A	P
			48	Elowitz, M	A	A	P
			49	Prober, D	A	A	P
			50	Bronner Hansen, M	A	A	P
			51	Aravin, A	A	A	P
			52	Aravin, A	A	A	P
			53	Clemons, W	A	A	P
			54	Mazmanian, S	A	A	P
			55	Newman, D	A	A	P
			56	Shan, S	A	A	P
			57	Guttman, M	A	A	P

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BIOLOGY							
Bi 022	+	Undergraduate Research	58	Ondrus, A	A	A	P
			59	Hong, E	A	A	P
			60	Pachter, L	A	A	P
			61	Zernicka-Goetz, M	A	A	P
			62	Wang, K	A	A	P
			63	Andersen, R	A	A	P
			64	Van Valen, D	A	A	P
			65	Glover, D	A	A	P
			66	Dunphy, W	A	A	P
Bi 023	1-0-2	Biology Tutorials <i>See course syllabus link for each section's tutorial title // Sec 8 has an alternate section that meets Fridays at 4pm in 152 BRN</i>	01	Stagkourakis, A	OM,R 16:00 - 16:55	A	P
			02	Prober, D	OM,F 16:00 - 16:55	340A CNRB	P
			03	Zhao, W	OM,R 16:00 - 16:55	300 BRD	P
			04	Junyent Espinosa, S	OM,F 16:00 - 17:55	A	P
			05	Kovacs, L	OM,F 15:00 - 15:55	B136 KRK	P
			06	Prober, D	OM,R 16:00 - 16:55	200 BRD	P
			07	Helou, A	OM,W 16:00 - 16:55	200 BRD	P
			08	MacNabb, B	F 13:30 - 14:55	152 BRN	P
BE/Bi 025	3-0-6	Biophysical Chemistry	01	Bois, J	TR 09:00 - 10:25	100 - Rock Auditorium BRD	
Bi 090B	+	Undergraduate Thesis	01	Doyle, J / Kennedy, M	A	A	P
			02	Wold, B / Kennedy, M	A	A	P
			03	Sternberg, P / Kennedy, M	A	A	P
			04	Lester, H / Kennedy, M	A	A	P
			05	Kennedy, M / Newman, D	A	A	P
			06	Anderson, D / Kennedy, M	A	A	P
			07	Wold, B / Kennedy, M	A	A	P
			09	Allman, J / Kennedy, M	A	A	P
			10	Rothenberg, E / Kennedy, M	A	A	P
			11	Rangel, A / Kennedy, M	A	A	P

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BIOLOGY							
Bi 090B	+	Undergraduate Thesis	12	Gradinaru, V / Kennedy, M	A	A	P
			13	Davis, M / Kennedy, M	A	A	P
			14	Baltimore, D / Kennedy, M	A	A	P
			15	Rothenberg, E / Kennedy, M	A	A	P
			16	Hassibi, B / Kennedy, M	A	A	P
			17	Kennedy, M / Hsieh-Wilson, L	A	A	P
			18	Siapas, A / Kennedy, M	A	A	P
			19	Kennedy, M / Mazmanian, S	A	A	P
			20	Bronner Hansen, M / Kennedy, M	A	A	P
			21	Kennedy, M / Hong, E	A	A	P
22	Kennedy, M / Lester, H	A	A	P			
Bi 090C	+	Undergraduate Thesis	01	Bronner Hansen, M / Kennedy, M	A	A	P
CNS/Psy/Bi 102A	3-0-6	Brains, Minds, and Society <i>class cancelled</i>	01	Staff	A	A	
Ch/Bi 110B	4-0-8	Introduction to Biochemistry	01	Rees, D / Clemons, W	MWF 11:00 - 11:55 W 15:00 - 16:55	153 NYS 153 NYS	
Bi 114	3-0-6	Immunology <i>maximum enrollment: 40 students</i>	01	Bjorkman, P / Mazmanian, S	MW 13:30 - 14:55	130 CNRB	
Bi 117	3-0-6	Developmental Biology	01	Bronner Hansen, M	M 19:00 - 19:55 TR 13:00 - 14:25	100 - Rock Auditorium BRD 100 - Rock Auditorium BRD	
Bi 118	3-0-6	Morphogenesis of Developmental Systems	01	Stathopoulos, A	TR 10:30 - 11:55	200 BRD	
Bi 145B	3-0-6	Tissue and Organ Physiology	01	Tydell, C	TR 19:00 - 20:25	152 BRN	

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BIOLOGY							
NB/Bi/BE 155	3-0-3	Neuropharmacology	01	Lester, H	MW 09:00 - 10:25	B136 KRK	G
BE/Bi/APh 161	3-0-9	Physical Biology of the Cell	01	Bois, J	MW 14:30 - 15:55	100 - Rock Auditorium BRD	
Pl/CNS/NB/Bi/Psy 167	3-0-6	Consciousness <i>open by application only, apply at http://registrar.caltech.edu/PL167 by Nov 16th // maximum enrollment: 20 students</i>	01	Eberhardt, F / Adolphs, R	TR 10:30 - 11:55	130 CNRB	G
ESE/Bi 168	3-0-6	Microbial Metabolic Diversity	01	Newman, D	MWF 09:00 - 09:55	215 NMD	
Bi/BE 177	3-0-6	Principles of Modern Microscopy	01	Collazo, A	TR 10:30 - 11:55	119 KRK	
Ge/ESE/Bi 178	3-2-4	Microbial Ecology	01	Orphan, V	TR 13:00 - 14:25	162 SMD	
Bi/BE/CS 183	3-0-6	Introduction to Computational Biology and Bioinformatics <i>class meets in 100 BRD on February 2nd and 9th</i>	01	Pachter, L	TR 10:30 - 11:55	B180 BBB	
CNS/Bi/EE/CS/NB 186	4-4-4	Vision: From Computational Theory to Neuronal Mechanisms <i>class cancelled</i>	01	Staff	A	A	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	100 CNRB	G
NB/Bi/CNS 220	2-0-4	Genetic Dissection of Neural Circuit Function	01	Anderson, D	R 15:00 - 17:55	340A CNRB	
CNS/Bi/NB 247	2-0-4	Cerebral Cortex	01	Andersen, R	TR 13:00 - 13:55	333 BBB	
Bi 250D	3-0-6	Topics in Developmental, Stem Cell and Evolutionary Biology	01	Bronner Hansen, M / Rothenberg, E / Zernicka-Goetz, M	TR 14:30 - 15:55	100 - Rock Auditorium BRD	

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BIOLOGY							
Bi/BMB 251B	+	Current Research in Cellular and Molecular Biology	01	Hay, B	A	A	P
Bi 299	+	Graduate Research	01	Stathopoulos, A	A	A	P
			02	Lester, H	A	A	P
			03	Allman, J	A	A	P
			04	Andersen, R	A	A	P
			05	Anderson, D	A	A	P
			06	Varshavsky, A	A	A	P
			07	Mazmanian, S	A	A	P
			08	Ondrus, A	A	A	P
			09	Pachter, L	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
			14	Thomson, M	A	A	P
			15	Baltimore, D	A	A	P
			16	Dickinson, M	A	A	P
			17	Clemons, W	A	A	P
			18	Dunphy, W	A	A	P
			19	Voorhees, R	A	A	P
			20	Goddard, W	A	A	P
			21	Hay, B	A	A	P
			22	Kennedy, M	A	A	P
			23	Scherer, A	A	A	P
			24	Orphan, V	A	A	P
			25	Arnold, F	A	A	P
			26	Pierce, N	A	A	P
			27	Tsao, D	A	A	P
			28	Mayo, S	A	A	P
			29	Meyerowitz, E	A	A	P
			30	Newman, D	A	A	P
			31	Guo, C	A	A	P

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

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BIOLOGY							
Bi 299	+	Graduate Research	65	Hsiao, E	A	A	P
			66	Shapiro, M	A	A	P
			67	Hong, E	A	A	P
			68	Ismagilov, R	A	A	P
			69	Phillips, R	A	A	P
			70	Parker, J	A	A	P
			71	Roukes, M	A	A	P
			72	Van Valen, D	A	A	P
			73	Wang, K	A	A	P
			74	Zernicka-Goetz, M	A	A	P
			75	Newman, H	A	A	P
			76	Schulman, L	A	A	P
			77	Chong, S	A	A	P
			78	Glover, D	A	A	P
79	Demirer, G	A	A	P			
80	McFall-Ngai, M	A	A	P			
BUSINESS, ECONOMICS, AND MANAGEMENT							
BEM097	+	Undergraduate Research <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P
BEM101	+	Selected Topics in Business Economics and Management: Economics of Sustainable Development	01	Singh, J	TR 14:30 - 15:55	117 DAB	G
BEM103	3-0-6	Introduction to Finance <i>class meets in 119 KRK on Feb 24th</i>	01	Rosenthal, J	MWF 09:00 - 09:55	Lecture Hall BAX	G
BEM111	3-0-6	Quantitative Risk and Portfolio Management	01	Winston, K	TR 19:00 - 20:25	REMOTE	
CHEMICAL ENGINEERING							
Ch/ChE 009	1-6-2	Chemical Synthesis and Characterization for Chemical Engineering <i>class cancelled</i>	01	Mendez, J	A	A	

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CHEMICAL ENGINEERING							
ChE015	1-4-4	Introduction to Chemical Engineering Computation	01	Flagan, R	TR 09:00 - 10:55	B101 BBB	
ChE062	3-0-6	Separation Processes	01	Seinfeld, J	MWF 13:00 - 13:55	106 SPL	G
ChE070	0-0-0	Special Topics in Chemical Engineering: ChemE Car	01	Brady, J / Vicic, M	OM,T 12:00 - 12:55	122 SPL	P
ChE080	+	Undergraduate Research	01	Arnold, F	A	A	P
			02	Giapis, K	A	A	P
			03	Kornfield, J	A	A	P
			04	Haile, S	A	A	P
			05	Ismagilov, R	A	A	P
			06	Lewis, N	A	A	P
			07	Davis, M	A	A	P
			09	Shapiro, M	A	A	P
			10	Goddard, W	A	A	P
			11	Hoelz, A	A	A	P
			12	Greer, J	A	A	P
			13	Flagan, R	A	A	P
			14	Gavalas, G	A	A	P
			15	Shapiro, M	A	A	P
			34	Seinfeld, J	A	A	P
			36	Tirrell, D	A	A	P
			37	Heath, J	A	A	P
			38	Agapie, T	A	A	P
ChE090A	+	Senior Thesis	01	Heath, J	A	A	P
			02	Giapis, K	A	A	P
			03	Seinfeld, J	A	A	P
			04	Tirrell, D	A	A	P
			06	Flagan, R	A	A	P
			07	Gavalas, G	A	A	P
			08	Kornfield, J	A	A	P
			09	Davis, M	A	A	P

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CHEMICAL ENGINEERING							
ChE090A	+	Senior Thesis	10	Haile, S	A	A	P
			11	Wang, Z	A	A	P
			13	Brady, J	A	A	P
			14	Greer, J	A	A	P
			15	Cai, L / Arnold, F	A	A	P
			17	Fu, G	A	A	P
			18	Atwater, H	A	A	P
ChE090B	0-4-5	Senior Thesis	01	Giapis, K	A	A	
			02	Tirrell, D	A	A	
			03	Kornfield, J	A	A	
			04	Cai, L / Arnold, F	A	A	
			05	Lewis, N	A	A	
			06	Flagan, R	A	A	
			07	Atwater, H	A	A	
			08	Mayo, S	A	A	
			09	Ismagilov, R	A	A	
			10	Seinfeld, J	A	A	
			11	Wang, Z	A	A	
			12	Greer, J	A	A	
			13	Clemons, W	A	A	
Ch/ChE 091	2-0-1	Scientific Writing <i>class cancelled</i>	01	Parker, C	A	A	G
ChE101	3-0-6	Chemical Reaction Engineering	01	Demirer, G	TR 14:30 - 15:55	106 SPL	
ChE103B	3-0-6	Transport Phenomena	01	Shapiro, M	MWF 10:00 - 10:55	106 SPL	
ChE/ESE/ME/MS 111	3-0-6	Sustainable Engineering	01	Kornfield, J	TR 11:30 - 12:55	153 NYS	
ChE/BE/MedE 112	3-0-6	Creativity and Technological Innovation with Microfluidic Systems <i>Maximum enrollment: 20 students</i>	01	Ismagilov, R	TR 13:00 - 14:25	101 SCH	

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CHEMICAL ENGINEERING							
ChE118	3-0-6	Introduction to the Design of Chemical Systems	01	Vicic, M	MWF 15:00 - 15:55	102 SPL	
ChE128	1-6-2	Chemical Engineering Design Laboratory <i>If unable to register, please contact instructor.</i>	01	Vicic, M / Giapis, K	M 12:00 - 12:55 WF 09:00 - 11:55	102 SPL 122 SPL	G
Ch/ChE 140A	3-0-6	Principles and Applications of Semiconductor Photoelectrochemistry	01	Lewis, N	TR 13:00 - 14:25	216 NYS	
ChE141	1-2-6	Data Science for Chemical Systems <i>Max enrollment is 15 students; Priority given to ChE undergrads</i>	01	Vicic, M	TR 10:30 - 11:55	102 SPL	
ChE151A	3-0-9	Physical and Chemical Rate Processes	01	Brady, J	MWF 09:00 - 09:55	102 SPL	G
ChE/Ch 164	3-0-6	Introduction to Statistical Thermodynamics	01	Chan, G / Wang, Z	TR 13:00 - 14:25	106 SPL	
ChE/BE/MedE 188	3-0-6	Molecular Imaging	01	Shapiro, M	W 19:00 - 21:55	113 SPL	
ChE280	+	Chemical Engineering Research	01	Arnold, F	A	A	P
			02	Murray, R	A	A	P
			03	Haile, S	A	A	P
			04	Stoltz, B	A	A	P
			05	Pierce, N	A	A	P
			06	Dougherty, D	A	A	P
			07	Brady, J	A	A	P
			08	Atwater, H	A	A	P
			09	Elowitz, M	A	A	P
			10	Davis, M	A	A	P
			11	Greer, J	A	A	P
			12	Fultz, B	A	A	P
			13	Flagan, R	A	A	P
			14	See, K	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	Miller, T	A	A	P
			19	Shapiro, M	A	A	P
			20	Hoffmann, M	A	A	P
			21	Kornfield, J	A	A	P
			22	Robb, M	A	A	P
			23	Lewis, N	A	A	P
			24	Wei, L	A	A	P
			25	Chan, G	A	A	P
			26	Pachter, L	A	A	P
			27	Wang, K	A	A	P
			28	Hadt, R	A	A	P
			36	Tirrell, D	A	A	P
			37	Wang, Z	A	A	P
			40	Seinfeld, J	A	A	P
			41	Heath, J	A	A	P
			46	Ismagilov, R	A	A	P
			47	Guttman, M	A	A	P
			48	Mayo, S	A	A	P
			49	Agapie, T	A	A	P
50	Gao, W	A	A	P			
51	Manthiram, K	A	A	P			
52	Demirer, G	A	A	P			
CHEMISTRY							
Ch 001B	4-0-5	General Chemistry <i>Maximum Enrollment: 25 students per section</i>	01	Chan, G / Robb, M	MTR 11:00 - 11:55 W 14:00 - 14:55	Lecture Hall BAX B122 GCL	P
			02	Chan, G / Robb, M	MTR 11:00 - 11:55 W 14:00 - 14:55	Lecture Hall BAX 106 SPL	P
			03	Chan, G / Robb, M	MTR 11:00 - 11:55 W 15:00 - 15:55	Lecture Hall BAX 106 SPL	P
			04	Chan, G / Robb, M	MTR 11:00 - 11:55 W 14:00 - 14:55	Lecture Hall BAX 151 CRL	P

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CHEMISTRY							
Ch 001B	4-0-5	General Chemistry <i>Maximum Enrollment: 25 students per section</i>	05	Chan, G / Robb, M	MTR 11:00 - 11:55 W 16:00 - 16:55	Lecture Hall BAX 151 CRL	P
			06	Chan, G / Robb, M	MTR 11:00 - 11:55 W 16:00 - 16:55	Lecture Hall BAX 101 SCH	P
			07	Chan, G / Robb, M	MTR 11:00 - 11:55 R 14:00 - 14:55	Lecture Hall BAX 147 NYS	P
			08	Chan, G / Robb, M	MTR 11:00 - 11:55 R 16:00 - 16:55	Lecture Hall BAX 147 NYS	P
			09	Chan, G / Robb, M	MTR 11:00 - 11:55 W 15:00 - 15:55	Lecture Hall BAX 101 SCH	P
			10	Chan, G / Robb, M	MTR 11:00 - 11:55 R 14:00 - 14:55	Lecture Hall BAX 151 CRL	P
			11	Chan, G / Robb, M	MTR 11:00 - 11:55 R 16:00 - 16:55	Lecture Hall BAX 153 NYS	P
			Ch 003A	1-3-2	Fundamental Techniques of Experimental Chemistry <i>open by lottery to Ch and ChE only; see REGIS to enter by Nov 16th // Students entering 2020 or before must take Ch 3 in their 1st 9 terms of residence in order to be graded pass/fail. Frosh entering 2021 must take Ch 3 in their first six terms of residence in order to be graded pass/fail</i>	01	Mendez, J
Ch 003X	1-3-2	Experimental Methods in Solar Energy Conversion <i>Max enroll: 22 students per sec // Students entering 2020 and before must take Ch 3 in their first 9 terms of residence in order to be graded pass/fail. Frosh entering 2021 must take Ch 3 in their first six terms of residence in order to be graded pass/fail</i>	01	Mendez, J	F 13:00 - 13:55 T 08:00 - 10:55	B122 GCL B157 CRL	P
			02	Mendez, J	F 13:00 - 13:55 T 13:00 - 15:55	B122 GCL B157 CRL	P
			03	Mendez, J	F 13:00 - 13:55 W 13:00 - 15:55	B122 GCL B157 CRL	P
			04	Mendez, J	F 13:00 - 13:55 R 08:00 - 10:55	B122 GCL B157 CRL	P
Ch 004A	1-6-2	Synthesis and Analysis of Organic and Inorganic Compounds <i>open by lottery only; see link on the REGIS</i>	01	Mendez, J	F 15:00 - 15:55 T 08:00 - 10:55 R 08:00 - 10:55	B122 GCL 130 CHR 130 CHR	

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CHEMISTRY							
Ch 005A	1-9-2	Advanced Techniques of Synthesis and Analysis <i>maximum enrollment: 10 students</i>	01	Nelson, H	A	A	
Ch/ChE 009	1-6-2	Chemical Synthesis and Characterization for Chemical Engineering <i>class cancelled</i>	01	Mendez, J	A	A	
Ch 010B	1-0-0	Frontiers in Chemistry <i>Lab Hours TBA // open to freshmen and sophomores only</i>	01	Hoelz, A	R 12:00 - 12:55	147 NYS	P
Ch 021B	3-0-6	Physical Chemistry	01	Winkler, J	MWF 13:00 - 13:55	147 NYS	G
Ch 041B	4-0-5	Organic Chemistry	01	Hsieh-Wilson, L	MWF 09:00 - 09:55 W 15:00 - 15:55	153 NYS 151 CRL	
			02	Hsieh-Wilson, L	W 20:00 - 20:55	151 CRL	
			03	Hsieh-Wilson, L	MWF 09:00 - 09:55 R 20:00 - 20:55	153 NYS 151 CRL	
Ch 080	+	Chemical Research	01	Dervan, P	A	A	P
			02	Hsieh-Wilson, L	A	A	P
			03	Barton, J	A	A	P
			04	Beauchamp, J	A	A	P
			06	Goddard, W	A	A	P
			07	Marcus, R	A	A	P
			08	Shan, S	A	A	P
			09	Bercaw, J	A	A	P
			10	Heath, J	A	A	P
			11	Agapie, T	A	A	P
			12	Davis, M	A	A	P
			13	Chan, G	A	A	P
			14	Shapiro, M	A	A	P
			15	Arnold, F	A	A	P
			16	Haile, S	A	A	P
			17	Gray, H	A	A	P

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CHEMISTRY							
Ch 080	+	Chemical Research	18	Virgil, S	A	A	P
			19	Robb, M	A	A	P
			20	Kornfield, J	A	A	P
			21	Rossman, G	A	A	P
			22	Wei, L	A	A	P
			27	Okumura, M	A	A	P
			29	Peters, J	A	A	P
			30	Gao, W	A	A	P
			35	Stoltz, B	A	A	P
			36	Tirrell, D	A	A	P
			37	Reisman, S	A	A	P
			38	Weitekamp, D	A	A	P
			39	Lewis, N	A	A	P
			40	Rees, D	A	A	P
			41	Hoelz, A	A	A	P
			42	Fu, G	A	A	P
			43	Dougherty, D	A	A	P
			44	Hoffmann, M	A	A	P
			45	Holst, M	A	A	P
			46	Clemons, W	A	A	P
			47	Blake, G	A	A	P
48	Ondrus, A	A	A	P			
49	Cushing, S	A	A	P			
50	See, K	A	A	P			
51	Mayo, S	A	A	P			
Ch 081	+	Independent Reading in Chemistry	01	Robb, M	A	A	P
			02	Reisman, S	A	A	P
			03	Hoelz, A	A	A	P
			04	Gray, H	A	A	P
			05	Stoltz, B	A	A	P
			06	Goddard, W	A	A	P
			22	Lewis, N	A	A	P

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CHEMISTRY							
Ch 082	+	Senior Thesis Research <i>9 units per term</i>	01	Rees, D / Okumura, M	A	A	P
			02	Shapiro, M / Okumura, M	A	A	P
			03	Okumura, M / Hoelz, A	A	A	P
			05	Agapie, T / Okumura, M	A	A	P
			06	Peters, J / Okumura, M	A	A	P
			07	Tirrell, D / Okumura, M	A	A	P
			08	Stoltz, B / Okumura, M	A	A	P
			09	Gray, H / Okumura, M	A	A	P
			10	Asimow, P / Okumura, M	A	A	P
			11	Dougherty, D / Okumura, M	A	A	P
			12	Wei, L / Okumura, M	A	A	P
			13	Rossman, G / Okumura, M	A	A	P
			14	Reisman, S / Okumura, M	A	A	P
			15	Hsieh-Wilson, L / Okumura, M	A	A	P
			16	Hoelz, A / Okumura, M	A	A	P
			17	Chan, G / Okumura, M	A	A	P
			18	Arnold, F / Okumura, M	A	A	P
			19	Hadt, R / Okumura, M	A	A	P
			20	Okumura, M / Clemons, W	A	A	P
			21	Okumura, M / Reisman, S	A	A	P
			22	Ondrus, A / Goddard, W / Okumura, M	A	A	P
			23	Robb, M / Okumura, M	A	A	P
			24	Oka, Y / Okumura, M	A	A	P
			Ch 090	2-0-1	Oral Presentation <i>maximum enrollment: 12 students</i>	01	Bikle, K

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CHEMISTRY							
Ch/ChE 091	2-0-1	Scientific Writing <i>class cancelled</i>	01	Parker, C	A	A	G
Ch 104	4-0-5	Intermediate Organic Chemistry	01	Fu, G	TR 14:00 - 15:55	153 NYS	
Ch/Bi 110B	4-0-8	Introduction to Biochemistry	01	Rees, D / Clemons, W	MWF 11:00 - 11:55 W 15:00 - 16:55	153 NYS 153 NYS	
Ch 120A	3-0-6	Nature of the Chemical Bond	01	Goddard, W	MWF 14:00 - 14:55	115 BCK	
Ch 125B	3-0-6	The Elements of Quantum Chemistry <i>class cancelled</i>	01	Weitekamp, D	A	A	
Ch/ChE 140A	3-0-6	Principles and Applications of Semiconductor Photoelectrochemistry	01	Lewis, N	TR 13:00 - 14:25	216 NYS	
Ch 153A	3-0-6	Advanced Inorganic Chemistry	01	Gray, H / Winkler, J	F 10:00 - 11:55	115 BCK	
Ch 154A	4-0-5	Organometallic Chemistry	01	Peters, J	MW 14:00 - 14:55 F 14:00 - 15:55	101 SCH 101 SCH	
ChE/Ch 164	3-0-6	Introduction to Statistical Thermodynamics	01	Chan, G / Wang, Z	TR 13:00 - 14:25	106 SPL	
ESE/Ge/Ch 171	3-0-6	Atmospheric Chemistry I	01	Wennberg, P	TR 13:00 - 14:25	B122 GCL	
ESE/Ch 176	3-0-6	Environmental Physical Organic Chemistry Part I <i>class postponed to spring term</i>	01	Staff	A	A	
Ch 180	+	Chemical Research	01 02 03 04 6	Agapie, T Gray, H Giapis, K Goddard, W Eiler, J	A A A A A	A A A A A	P P P P P
BMB/Ch 202B	1-0-0	Biochemistry Seminar Course <i>To be held on Biochemistry Seminar days from</i>	01	Clemons, W	R 12:00 - 12:55	320 BRN	P

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CHEMISTRY							
Ch 213B	1-0-11	Advanced Ligand Field Theory	01	Gray, H	F 13:00 - 13:55	408 BCK	
Ch 242B	4-0-5	Chemical Synthesis <i>section 3 cancelled</i>	01	Reisman, S	MWF 10:00 - 10:55 T 16:00 - 16:55	147 NYS B122 GCL	
			02	Reisman, S	MWF 10:00 - 10:55 W 15:00 - 15:55	147 NYS 147 NYS	
			03	Reisman, S	A	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
			18	Goddard, W	A	A	P
			19	Gray, H	A	A	P
			20	Greer, J	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

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CHEMISTRY							
Ch 279	+	Rotations in Chemistry	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
			52	Weitekamp, D	A	A	P
			53	Wennberg, P	A	A	P
54	Manthiram, K	A	A	P			
Ch 280	+	Chemical Research	01	Arnold, F	A	A	P
			02	Bjorkman, P	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

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CHEMISTRY							
Ch 280	+	Chemical Research	07	Chan, G	A	A	P
			08	Cai, L	A	A	P
			09	Fu, G	A	A	P
			10	Davis, M	A	A	P
			11	Dervan, P	A	A	P
			12	Dougherty, D	A	A	P
			13	Goentoro, L	A	A	P
			14	Miller, T	A	A	P
			15	Reisman, S	A	A	P
			16	Goddard, W	A	A	P
			17	Gray, H	A	A	P
			19	Hsieh-Wilson, L	A	A	P
			20	Kornfield, J	A	A	P
			21	Wang, Z	A	A	P
			22	Lewis, N	A	A	P
			23	Atwater, H	A	A	P
			24	Hoffmann, M	A	A	P
			25	Mayo, S	A	A	P
			26	Clemons, W	A	A	P
			27	Okumura, M	A	A	P
			28	Ismagilov, R	A	A	P
			29	Peters, J	A	A	P
			30	Rees, D	A	A	P
			31	Cushing, S	A	A	P
			32	Sternberg, P	A	A	P
			33	Newman, D	A	A	P
			34	Seinfeld, J	A	A	P
			35	Stoltz, B	A	A	P
			36	Tirrell, D	A	A	P
			37	Ondrus, A	A	A	P
			38	Weitekamp, D	A	A	P
			39	Blanquart, G	A	A	P
			40	Greer, J	A	A	P

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CHEMISTRY							
Ch 280	+	Chemical Research	41	Atwater, H	A	A	P
			42	Lester, H	A	A	P
			43	Campbell, J	A	A	P
			44	Pierce, N	A	A	P
			45	Asimow, P	A	A	P
			46	Wennberg, P	A	A	P
			47	Eiler, J	A	A	P
			48	Elowitz, M	A	A	P
			49	Shan, S	A	A	P
			50	Agapie, T	A	A	P
			51	Hoelz, A	A	A	P
			52	Hadt, R	A	A	P
			53	Shapiro, M	A	A	P
			54	Jensen, G	A	A	P
			55	Adkins, J	A	A	P
			56	See, K	A	A	P
			57	Tai, Y	A	A	P
			58	Parker, J	A	A	P
			59	Robb, M	A	A	P
			60	Wei, L	A	A	P
			61	Voorhees, R	A	A	P
			62	Eiler, J	A	A	P
			63	Van Valen, D	A	A	P
			64	Minnich, A	A	A	P
			65	Faber, K	A	A	P
			66	Bernardi, M	A	A	P
			67	Nelson, H	A	A	P
			68	Pachter, L	A	A	P
			69	Semlow, D	A	A	P
			70	Anandkumar, A	A	A	P
			71	Chong, S	A	A	P
			72	Manthiram, K	A	A	P
			73	Chou, T	A	A	P

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CIVIL ENGINEERING							
Ae/APh/CE/ME 101B	3-0-6	Fluid Mechanics	01	Colonius, T	MWF 10:00 - 10:55	135 GTL	G
Ae/AM/CE/ME 102B	3-0-6	Mechanics of Structures and Solids	01	Rosakis, A	TR 09:00 - 10:25	135 GTL	G
ME/CE/Ge/ESE 146	3-0-6	Computational Methods for Flow in Porous Media	01	Fu, X	MW 13:00 - 14:25	115 GTL	G
AM/CE/ME 150B	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	135 GTL	P
AM/CE 151	3-0-6	Dynamics and Vibration	01	Asimaki, D	TR 13:00 - 14:25	115 GTL	G
CE 200	+	Advanced Work in Civil Engineering	01	Asimaki, D	A	A	P
CE 300	+	Research in Civil Engineering	01	Asimaki, D	A	A	P
			02	Heaton, T	A	A	P
			03	Daraio, C	A	A	P
			04	Pellegrino, S	A	A	P
			05	Lapusta, N	A	A	P
			06	Andrade, J	A	A	P
			07	Fu, X	A	A	P
COMPUTATION & NEURAL SYS							
CNS/Psy/Bi 102A	3-0-6	Brains, Minds, and Society <i>class cancelled</i>	01	Staff	A	A	
CMS/CS/CNS/EE 155	3-3-6	Machine Learning Data Mining	01	Lee, J / Rebbapragada, U / Mandrake, L	TR 14:30 - 15:55	134 (Auditorium) BCK	
CS/CNS/EE/IDS 165	3-3-6	Foundations of Machine Learning and Statistical Inference	01	Anandkumar, A	TR 13:00 - 14:25	213 ANB	
PI/CNS/NB/Bi/Psy 167	3-0-6	Consciousness <i>open by application only, apply at http://registrar.caltech.edu/PL167 by Nov 16th //</i>	01	Eberhardt, F / Adolphs, R	TR 10:30 - 11:55	130 CNRB	G

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COMPUTATION & NEURAL SYS							
CNS180	+	Research in Computation and Neural Systems	01	Burdick, J	A	A	P
			02	Murray, R	A	A	P
			03	Perona, P	A	A	P
			04	Fraser, S	A	A	P
			05	Oka, Y	A	A	P
			06	Hoffmann, M	A	A	P
			07	Allman, J	A	A	P
			08	Lester, H	A	A	P
			09	Hong, E	A	A	P
			10	Pachter, L	A	A	P
			11	Murray, R	A	A	P
			12	Allman, J	A	A	P
			13	Gradinaru, V	A	A	P
			14	Shimojo, S	A	A	P
			15	Tsao, D	A	A	P
			16	Wold, B	A	A	P
			17	Winfrey, E	A	A	P
			18	Rangel, A	A	A	P
			19	Siapas, A	A	A	P
			20	Prober, D	A	A	P
			22	Andersen, R	A	A	P
			23	Elowitz, M	A	A	P
			24	Anderson, D	A	A	P
			25	Adolphs, R	A	A	P
			26	Kennedy, M	A	A	P
			27	Quartz, S	A	A	P
			28	O'Doherty, J	A	A	P
			29	Camerer, C	A	A	P
			30	Meister, M	A	A	P
			31	Shapiro, M	A	A	P
			32	Yue, Y	A	A	P
			33	Thomson, M	A	A	P
			34	Anandkumar, A	A	A	P

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COMPUTATION & NEURAL SYS							
CNS180	+	Research in Computation and Neural Systems	35	Dickinson, M	A	A	P
			36	Rutishauser, U	A	A	P
			37	Ames, A	A	A	P
			38	Lois, C	A	A	P
			40	Hong, E	A	A	P
			41	Van Valen, D	A	A	P
			42	Mobbs, D	A	A	P
CNS/Bi/EE/CS/NB 186 4-4-4		Vision: From Computational Theory to Neuronal Mechanisms <i>class cancelled</i>	01	Staff	A	A	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	100 CNRB	G
NB/Bi/CNS 220	2-0-4	Genetic Dissection of Neural Circuit Function	01	Anderson, D	R 15:00 - 17:55	340A CNRB	
CNS/Bi/NB 247	2-0-4	Cerebral Cortex	01	Andersen, R	TR 13:00 - 13:55	333 BBB	
CNS251	2-1-6	Human Brain Mapping: Theory and Practice <i>class cancelled</i>	01	Staff	A	A	G
CNS280	+	Research in Computation and Neural Systems	01	Meister, M	A	A	P
			02	Elowitz, M	A	A	P
			03	Andersen, R	A	A	P
			04	Oka, Y	A	A	P
			05	Winfree, E	A	A	P
			06	Siapas, A	A	A	P
			07	Quartz, S	A	A	P
			08	Adolphs, R	A	A	P
			09	Murray, R	A	A	P
			10	Tsao, D	A	A	P
			12	Scherer, A	A	A	P
			13	Camerer, C	A	A	P
			14	Sternberg, P	A	A	P

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COMPUTER SCIENCE							
CS 002	3-5-1	Introduction to Programming Methods <i>maximum enrollment: 25 students per section // section 7 cancelled</i>	05	Blank, A	T 19:00 - 19:55	104 ANB	P
			06	Blank, A	MWF 14:00 - 14:55	134 (Auditorium) BCK	P
			07	Blank, A	T 20:00 - 20:55 A	104 ANB A	P
CS 004	3-4-2	Fundamentals of Computer Programming	01	Vanier, M	MWF 15:00 - 15:55	134 (Auditorium) BCK	G
Ma/CS 006B	3-0-6	Introduction to Discrete Mathematics	01	Conlon, D	MWF 13:00 - 13:55	387 LINDE	
EE/CS 010A	2-3-1	Introduction to Digital Logic and Embedded Systems	01	George, G	TF 15:00 - 15:55	B270 MRE	
CS 011	0-3-0	Computer Language Lab <i>CS 1 or instructor's permission is required. // Sec 1: C, Sec 15: Rust (max enroll: 20), Sec 16: LaTeX Programming // See http://courses.cms.caltech.edu/cs11/ for course info</i>	01	Vanier, M	OM,W 21:00 - 21:55	105 ANB	P
			15	Vanier, M	OM,W 21:00 - 21:55	105 ANB	P
			16	Blank, A	OM,W 19:00 - 19:55	104 ANB	P
CS 012	+	Student-Taught Topics in Computing <i>Variable Units between 1-9 // Sec 7: cancelled, Sec 9: Single Board Computers in Research, Sec 10: Computational Methods in Neuroscience (3 units)</i>	07	Staff	A	A	P
			09	Blank, A	OM,W 20:00 - 20:55	104 ANB	P
			10	Perona, P	OM,W 21:00 - 21:55	104 ANB	P
CS 019B	1-0-1	Introduction to Computer Science in Industry <i>class cancelled</i>	01	Ralph, C	A	A	P
CS 021	3-0-6	Decidability and Tractability	01	Umans, C	MWF 13:00 - 13:55	134 (Auditorium) BCK	G
CS 042	2-2-2	Computer Science Education in K-14 Settings <i>enrollment by application instructor permission required to add</i>	01	Ralph, C / Wierman, A	F 10:00 - 10:55	106 ANB	P
CS 080B	+	Undergraduate Thesis	01	Chandy, K	A	A	P
			02	Wierman, A	A	A	P
			03	Schroeder, P	A	A	P

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COMPUTER SCIENCE										
CS 080B	+	Undergraduate Thesis	04	Winfree, E	A	A	P			
			05	Barr, A	A	A	P			
			06	Murray, R	A	A	P			
			07	Vidick, T	A	A	P			
			08	Yue, Y	A	A	P			
			09	Perona, P	A	A	P			
			10	Umans, C	A	A	P			
			11	Schulman, L	A	A	P			
			12	Desbrun, M	A	A	P			
			13	Bruck, J	A	A	P			
			14	Chung, S	A	A	P			
			15	Virgil, S	A	A	P			
			16	Katz, N	A	A	P			
			17	Anandkumar, A	A	A	P			
			18	Adolphs, R	A	A	P			
			19	Rangel, A	A	A	P			
			20	Bouman, K	A	A	P			
			21	Bruno, O	A	A	P			
			22	Fischer, W	A	A	P			
			CS 081B	+	Undergraduate Projects in Computer Science	01	Pinkston, D	A	A	P
						02	Winfree, E	A	A	P
						03	Barr, A	A	A	P
04	Chandy, K	A				A	P			
05	Mahabal, A	A				A	P			
06	Wierman, A	A				A	P			
07	Desbrun, M	A				A	P			
08	Rangel, A	A				A	P			
09	Vanier, M	A				A	P			
10	Perona, P	A				A	P			
11	Murray, R	A				A	P			
12	Adolphs, R	A				A	P			
13	Umans, C	A				A	P			
14	Burdick, J	A				A	P			

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CS 081B	+	Undergraduate Projects in Computer Science	15	Low, S	A	A	P
			16	Plott, C	A	A	P
			17	Yue, Y	A	A	P
			18	Hassibi, B	A	A	P
			19	Djorgovski, S	A	A	P
			20	Schroeder, P	A	A	P
			21	Alvarez, R	A	A	P
			22	Stalzer, M	A	A	P
			23	Ralph, C	A	A	P
			24	George, G	A	A	P
			25	Vidick, T	A	A	P
			26	Schulman, L	A	A	P
			27	Bunn, J	A	A	P
			28	Preskill, J	A	A	P
			29	Abu-Mostafa, Y	A	A	P
			30	Chung, S	A	A	P
			31	Thomson, M	A	A	P
			32	Chung, S	A	A	P
			33	Qian, L	A	A	P
			34	Blank, A	A	A	P
			35	Ames, A	A	A	P
			36	Bruck, J	A	A	P
			37	Rangel, A	A	A	P
			38	Tamuz, O	A	A	P
			39	Anandkumar, A	A	A	P
			40	Van Valen, D	A	A	P
			41	Bouman, K	A	A	P
42	Parker, J	A	A	P			
43	Stalzer, M	A	A	P			
44	Bruno, O	A	A	P			
45	Alvarez, R	A	A	P			
46	Hovik, M	A	A	P			
47	Shapiro, M	A	A	P			

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COMPUTER SCIENCE										
CS 081B	+	Undergraduate Projects in Computer Science	48	Mushkin, H	A	A	P			
CS 090	+	Undergraduate Reading in Computer Science	01	Abu-Mostafa, Y	A	A	P			
			02	Low, S	A	A	P			
			03	Blank, A	A	A	P			
			04	Schroeder, P	A	A	P			
			05	Winfrey, E	A	A	P			
			06	Umans, C	A	A	P			
			07	Desbrun, M	A	A	P			
			08	Barr, A	A	A	P			
			10	Perona, P	A	A	P			
			11	Chandy, K	A	A	P			
			13	Murray, R	A	A	P			
			14	Wierman, A	A	A	P			
			15	Vanier, M	A	A	P			
			16	Yue, Y	A	A	P			
CS 102B	+	Seminar in Computer Science	01	Staff	A	A				
			CS 103B	+	Reading in Computer Science	01	Staff	A	A	P
			Ma/CS 106B	3-0-6	Introduction to Discrete Mathematics	01	Conlon, D	MWF 13:00 - 13:55	387 LINDE	
			HPS/PI/CS 110	3-0-6	Causation and Explanation <i>class full, see instructor for waitlist // maximum enrollment: 15 students</i>	01	Eberhardt, F	TR 13:00 - 14:25	TR DAB	G

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COMPUTER SCIENCE							
CS 111	0-3-0	Graduate Programming Practicum <i>Sec 1: C, Sec 15: Rust, Sec 16: LaTeX Programming</i>	01	Vanier, M	OM,W 21:00 - 21:55	105 ANB	P
			15	Vanier, M	OM,W 21:00 - 21:55	105 ANB	P
			16	Blank, A	OM,W 19:00 - 19:55	104 ANB	P
Ec/ACM/CS 112	3-0-6	Bayesian Statistics	01	Rangel, A	TR 10:30 - 11:55	155 ARM	
Ma/CS 117B	3-0-6	Computability Theory	01	Ervin, G	TR 13:00 - 14:25	387 LINDE	
CS 118	3-3-3	Automata-Theoretic Software Analysis <i>class cancelled, will be offered next year - Winter 2024</i>	01	Holzmann, G	A	A	G
EE/CS 119B	3-3-3	Advanced Digital Systems Design	01	George, G	TF 13:00 - 13:55	B270 MRE	
CS/IDS 121	3-0-6	Relational Databases	01	Hovik, M	TR 09:00 - 10:25	105 ANB	G
CS 128	3-0-6	Interactive Theorem Proving	01	Vanier, M	MWF 11:00 - 11:55	314 ANB	G
CS 130	3-3-3	Software Engineering	01	Pinkston, D	MWF 11:00 - 11:55	104 ANB	
ME/CS/EE 133B	3-2-4	Robotics	01	Niemeyer, G	MWF 15:00 - 15:55	135 GTL	
ME/CS/EE 134	1-7-1	Robotic Systems	01	Niemeyer, G	MWF 13:00 - 13:55	135 GTL	
CMS/CS/EE/IDS 144	3-4-5	Networks: Structure & Economics	01	Wierman, A / Mazumdar, E	MWF 14:30 - 15:55	105 ANB	
CS/EE 146	3-3-3	Control and Optimization of Networks	01	Low, S	TR 10:30 - 11:55	106 ANB	
CMS/CS/CNS/EE 155	3-3-6	Machine Learning Data Mining	01	Lee, J / Rebbapragada, U / Mandrake, L	TR 14:30 - 15:55	134 (Auditorium) BCK	

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COMPUTER SCIENCE							
EE/CS/IDS 160	3-0-6	Fundamentals of Information Transmission and Storage	01	Kostina, V	MW 10:30 - 11:55	B270 MRE	
CS/IDS 162	3-0-6	Data, Algorithms and Society <i>Taught concurrently with VC 072 //maximum enrollment: 15 students between VC 72 and CS/IDS 162 // instructor permission required to add // apply at https://forms.gle/HxCECWgsUaujvT5d8</i>	01	Ralph, C / Mushkin, H	TR 14:30 - 15:55	106 ANB	
CS/CNS/EE/IDS 165	3-3-6	Foundations of Machine Learning and Statistical Inference	01	Anandkumar, A	TR 13:00 - 14:25	213 ANB	
CS/ACM 177A	3-3-3	Discrete Differential Geometry: Theory and Applications <i>class will meet in 314 ANB on January 12th</i>	01	Schroeder, P	TR 10:30 - 11:55	104 ANB	
CS 180	+	Master's Thesis Research	01	Abu-Mostafa, Y	A	A	P
			02	Umans, C	A	A	P
			04	Chandy, K	A	A	P
			05	Desbrun, M	A	A	P
			06	Kitaev, A	A	A	P
			07	Low, S	A	A	P
			08	Martin, A	A	A	P
			09	Yariv, A	A	A	P
			10	Barr, A	A	A	P
			11	Schroeder, P	A	A	P
			12	Wierman, A	A	A	P
			13	Winfree, E	A	A	P
			14	Wold, B	A	A	P
			15	Krause, R	A	A	P
			17	Perona, P	A	A	P
			18	Ligett, K	A	A	P
Bi/BE/CS 183	3-0-6	Introduction to Computational Biology and Bioinformatics <i>class meets in 100 BRD on February 2nd and</i>	01	Pachter, L	TR 10:30 - 11:55	B180 BBB	

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COMPUTER SCIENCE							
CNS/Bi/EE/CS/NB 186 4-4-4		Vision: From Computational Theory to Neuronal Mechanisms <i>class cancelled</i>	01	Staff	A	A	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	100 CNRB	G
BE/CS 196A	3-6-3	Design and Construction of Programmable Molecular Systems <i>maximum enrollment: 12 students</i>	01	Qian, L	TR 13:00 - 13:55 TR 14:00 - 15:55	B136 KRK B127 KRK	
Ph/CS 219B	3-0-6	Quantum Computation	01	Kitaev, A	MW 14:30 - 15:55	103 DWN	P
CS 280	+	Research in Computer Science	01	Abu-Mostafa, Y	A	A	P
			02	Umans, C	A	A	P
			03	Barr, A	A	A	P
			04	Chandy, K	A	A	P
			05	Desbrun, M	A	A	P
			06	Cvitanic, J	A	A	P
			07	Winfree, E	A	A	P
			08	Low, S	A	A	P
			09	Martin, A	A	A	P
			10	Winfree, E	A	A	P
			11	Perona, P	A	A	P
			12	Schroeder, P	A	A	P
			13	Chandrasekaran, V	A	A	P
			14	Kitaev, A	A	A	P
			15	Wierman, A	A	A	P
			16	Ligett, K	A	A	P
			17	Doyle, J	A	A	P
			18	Murray, R	A	A	P
			19	Vidick, T	A	A	P
			20	Yue, Y	A	A	P
			21	Gkioxari, G	A	A	P
COMPUTING AND MATHEMATICAL SCIENCES							

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COMPUTING AND MATHEMATICAL SCIENCES							
CMS/CS/EE/IDS 144	3-4-5	Networks: Structure & Economics	01	Wierman, A / Mazumdar, E	MWF 14:30 - 15:55	105 ANB	
CMS/CS/CNS/EE 155	3-3-6	Machine Learning Data Mining	01	Lee, J / Rebbapragada, U / Mandrake, L	TR 14:30 - 15:55	134 (Auditorium) BCK	
CMS290B	1-0-0	Computing and Mathematical Sciences Colloquium	01	Hou, Y	M 16:00 - 16:55	105 ANB	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	Winfree, E	A	A	P
			17	Yue, Y	A	A	P
			18	Chung, S	A	A	P
			19	Pachter, L	A	A	P
			20	Anandkumar, A	A	A	P
			21	Stuart, A	A	A	P
			22	Thomson, M	A	A	P
			23	Van Valen, D	A	A	P
			24	Bouman, K	A	A	P
			25	Bruck, J	A	A	P
CONTROL & DYNAMICAL SYSTEMS							

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CONTROL & DYNAMICAL SYSTEMS										
CDS090B	0-0-9	Senior Thesis in Control & Dynamical Systems	01	Murray, R	A	A	G			
CDS112	3-0-6	Optimal Control and Estimation <i>taught concurrently with Ae 103B</i>	01	Murray, R	MWF 14:00 - 14:55	213 ANB				
CDS141	3-2-4	Network Control Systems <i>taught concurrently with CDS270</i>	01	Doyle, J	TR 13:00 - 14:25	314 ANB	P			
CDS190	+	Independent Work in Control and Dynamical Systems	01	Chung, S	A	A	P			
CDS232	3-0-6	Nonlinear Dynamics	01	Ames, A	MWF 16:00 - 17:25	135 GTL	G			
ME/CDS/EE 234A	3-3-3	Advanced Robotics: Planning	01	Burdick, J	TR 14:30 - 15:55	115 GTL	G			
CDS270	+	Advanced Topics in Systems and Control <i>taught concurrently with CDS141</i>	01	Doyle, J	TR 13:00 - 14:25	314 ANB	P			
CDS300B	+	Research in Control and Dynamical Systems	01	Burdick, J	A	A	P			
			02	Adolphs, R	A	A	P			
			03	Doyle, J	A	A	P			
			04	Owhadi, H	A	A	P			
			05	Siapas, A	A	A	P			
			06	Goentoro, L	A	A	P			
			07	Dickinson, M	A	A	P			
			08	Murray, R	A	A	P			
			11	Elowitz, M	A	A	P			
			12	Desbrun, M	A	A	P			
			13	Ortiz, M	A	A	P			
			14	Beck, J	A	A	P			
			16	Ames, A	A	A	P			
			17	Chung, S	A	A	P			
			ECONOMICS							

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ECONOMICS							
Ec 011	3-2-4	Introduction to Economics	01	Rangel, A	TR 13:00 - 14:25	Lecture Hall BAX	
Ec 097	+	Undergraduate Research <i>Instructor permission required prior to registering</i>	01 02	Pomatto, L Nielsen, K	A A	A A	P P
Ec 098B	+	Senior Research and Thesis <i>Instructor permission required prior to registering</i>	01	Camerer, C	A	A	P
Ec 101	3-0-6	Selected Topics in Economics <i>open to declared Econ seniors only</i>	01	Rosenthal, J	OM,W 15:30 - 16:25	137 BAX	
Ec 105	3-0-6	Firms, Competition, and Industrial Organization <i>Designated as Writing Intensive Course</i>	01	Shum, M	F 13:00 - 15:55	128 BAX	G
Ec 108	3-0-6	Foundations of Behavioral Economics	01	Sprenger, C	TR 09:00 - 10:25	B125 BAX	
Ec 109	3-0-6	Frontier in Behavioral Economics	01	Nielsen, K	MWF 13:00 - 13:55	B133 BAX	
Ec/ACM/CS 112	3-0-6	Bayesian Statistics	01	Rangel, A	TR 10:30 - 11:55	155 ARM	
Ec 121B	3-0-6	Theory of Value	01	Saito, K	TR 13:00 - 14:25	115 DAB	G
Ec/PS 124	3-0-6	Identification Problems in the Social Sciences	01	Sherman, R	TR 13:00 - 14:25	228 BAX	
ELECTRICAL ENGINEERING							
EE 002	1-0-0	Electrical Engineering Entrepreneurial and Research Seminar	01	Emami, A	W 12:00 - 12:55	B270 MRE	P
EE/CS 010A	2-3-1	Introduction to Digital Logic and Embedded Systems	01	George, G	TF 15:00 - 15:55	B270 MRE	

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ELECTRICAL ENGINEERING							
APh/EE 023	3-0-6	Demonstration Lectures in Classical and Quantum Photonics	01	Matsko, A	WF 13:00 - 14:25	133 STL	
EE/APh 040	3-0-6	Physics of Electrical Engineering	01	Marandi, A	MW 13:00 - 14:25	B280 MRE	
EE 080B	+	Senior Thesis	01	Hajimiri, S	A	A	P
			02	Effros, M	A	A	P
			03	Doyle, J	A	A	P
			04	Tai, Y	A	A	P
			05	Hassibi, B	A	A	P
			06	Abbott, R	A	A	P
			07	George, G	A	A	P
			08	Emami, A	A	A	P
			09	Yue, Y	A	A	P
			10	Van Valen, D	A	A	P
			11	Scherer, A	A	A	P
			12	Marandi, A	A	A	P
EE 085	2-3-4	Analog and RF Circuits Laboratory	01	Kalantar Ohanian, R	F 09:00 - 10:55	B270 MRE	
EE 099	+	Advanced Work in Electrical Engineering	01	Scherer, A	A	A	P
			02	Perona, P	A	A	P
			03	George, G	A	A	P
			04	Atwater, H	A	A	P
			05	Murray, R	A	A	P
			06	Emami, A	A	A	P
			07	Gharib, M	A	A	P
			08	Low, S	A	A	P
			09	Yang, C	A	A	P
			10	Hajimiri, S	A	A	P
			11	Burdick, J	A	A	P
			12	Tai, Y	A	A	P
			13	Yariv, A	A	A	P
			14	Bruck, J	A	A	P

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ELECTRICAL ENGINEERING							
EE 099	+	Advanced Work in Electrical Engineering	15	Marandi, A	A	A	P
			16	Hassibi, B	A	A	P
			17	Wang, L	A	A	P
			18	Gao, W	A	A	P
			19	Kalantar Ohanian, R	A	A	P
			20	Kostina, V	A	A	P
EE 102	1-0-0	Electrical Engineering Entrepreneurial and Research Seminar	01	Emami, A	W 12:00 - 12:55	B270 MRE	P
EE 105B	1-0-0	Electrical Engineering Seminar <i>class cancelled - offered as EE 102 winter term</i>	01	Emami, A	A	A	P
ACM/EE 106B	3-0-9	Introductory Methods of Computational Mathematics	01	Hou, Y	TR 13:00 - 14:25	104 ANB	G
APh/EE 109	0-6-3	Introduction to the Micro/Nanofabrication Lab	01	Ghaffari, A	OM,W 16:00 - 16:55	104 WAT	
EE 113	3-3-3	Feedback and Control Circuits	01	George, G	T 14:00 - 14:55 R 14:00 - 15:55	B270 MRE B270 MRE	
EE/MedE 114A	4-0-8	Analog Circuit Design	01	Hajimiri, S	TR 09:00 - 10:55	B270 MRE	
Ph/APh/EE/BE 118A	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	387 LINDE	
EE/CS 119B	3-3-3	Advanced Digital Systems Design	01	George, G	TF 13:00 - 13:55	B270 MRE	
ME/CS/EE 133B	3-2-4	Robotics	01	Niemeyer, G	MWF 15:00 - 15:55	135 GTL	
ME/CS/EE 134	1-7-1	Robotic Systems	01	Niemeyer, G	MWF 13:00 - 13:55	135 GTL	
CMS/CS/EE/IDS 144	3-4-5	Networks: Structure & Economics	01	Wierman, A / Mazumdar, E	MWF 14:30 - 15:55	105 ANB	

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ELECTRICAL ENGINEERING							
CS/EE 146	3-3-3	Control and Optimization of Networks	01	Low, S	TR 10:30 - 11:55	106 ANB	
EE 153	3-2-7	Microwave Circuits and Antennas	01	Antsos, D	T 15:00 - 16:55 R 15:00 - 15:55	B280 MRE B280 MRE	
CMS/CS/CNS/EE 155	3-3-6	Machine Learning Data Mining	01	Lee, J / Rebbapragada, U / Mandrake, L	TR 14:30 - 15:55	134 (Auditorium) BCK	
EE/Ae 157B	3-0-6	Introduction to the Physics of Remote Sensing	01	Rosen, P	TR 14:30 - 15:55	105 ANB	
EE/APh 158	3-0-6	Quantum Electrical Circuits	01	Mirhosseini, M	MW 10:30 - 11:55	B280 MRE	
EE/CS/IDS 160	3-0-6	Fundamentals of Information Transmission and Storage	01	Kostina, V	MW 10:30 - 11:55	B270 MRE	
EE 164	3-0-6	Stochastic and Adaptive Signal Processing	01	Hassibi, B	TR 09:00 - 10:25	B280 MRE	
CS/CNS/EE/IDS 165	3-3-6	Foundations of Machine Learning and Statistical Inference	01	Anandkumar, A	TR 13:00 - 14:25	213 ANB	
MedE/EE/BE 168C	4-0-5	Biomedical Optics: Principles and Imaging	01	Wang, L	TF 15:30 - 17:25	142 KCK	G
EE/BE/MedE 185	3-0-6	Micro/Nano Technology for Semiconductor and Medical Device	01	Tai, Y	MW 10:30 - 11:55	142 KCK	
CNS/Bi/EE/CS/NB 186	4-4-4	Vision: From Computational Theory to Neuronal Mechanisms <i>class cancelled</i>	01	Staff	A	A	
APh/EE 190A	3-0-6	Quantum Electronics	01	Vahala, K	TR 13:00 - 14:25	142 KCK	
ME/CDS/EE 234A	3-3-3	Advanced Robotics: Planning	01	Burdick, J	TR 14:30 - 15:55	115 GTL	G
EE 291	+	Advanced Work in Electrical Engineering	01 02	Abu-Mostafa, Y Kostina, V	A A	A A	P P

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ELECTRICAL ENGINEERING							
EE 291	+	Advanced Work in Electrical Engineering	03	Bruck, J	A	A	P
			04	Burdick, J	A	A	P
			05	Heath, J	A	A	P
			06	Doyle, J	A	A	P
			07	Effros, M	A	A	P
			08	Vahala, K	A	A	P
			09	George, G	A	A	P
			10	Yeh, N	A	A	P
			11	Hajimiri, S	A	A	P
			12	Hassibi, B	A	A	P
			13	Zmuidzinas, J	A	A	P
			14	Low, S	A	A	P
			15	Anderson, D	A	A	P
			16	Atwater, H	A	A	P
			17	Murray, R	A	A	P
			18	Perona, P	A	A	P
			19	Gharib, M	A	A	P
			20	Hoffmann, M	A	A	P
			21	Mirhosseini, M	A	A	P
			22	Phillips, R	A	A	P
			23	Cvitanić, J	A	A	P
			24	Quartz, S	A	A	P
			25	Spiropulu, M	A	A	P
			26	Scherer, A	A	A	P
			27	Vidick, T	A	A	P
			28	Tai, Y	A	A	P
			29	Vaidyanathan, P	A	A	P
			30	Yariv, A	A	A	P
			31	Chandrasekaran, V	A	A	P
			32	Roukes, M	A	A	P
			33	Avouac, J	A	A	P
			34	Weinreb, S	A	A	P
			35	Hallinan, G	A	A	P

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ELECTRICAL ENGINEERING							
EE 291	+	Advanced Work in Electrical Engineering	36	Martin, A	A	A	P
			37	Yang, C	A	A	P
			38	Emami, A	A	A	P
			39	Painter, O	A	A	P
			40	Faraon, A	A	A	P
			41	Lahouti, F	A	A	P
			42	Minnich, A	A	A	P
			44	Yue, Y	A	A	P
			46	Shapiro, M	A	A	P
			47	Wang, L	A	A	P
			48	Tsao, D	A	A	P
			49	Marandi, A	A	A	P
			50	Greer, J	A	A	P
			51	Greer, J	A	A	P
ENGINEERING							
VC/E 081	1-0-0	Careers in STEAM	01	Mushkin, H	R 12:00 - 12:55	107 DWN	P
E 100	0-0-0	Special Topics in Engineering & Applied Science <i>only open to students who participated in the Freshman Summer Research Institute // 1 unit /// meets in tent next to Bechtel Residence</i>	01	Hunt, M / Blank, A	F 12:00 - 12:55	121 ANB	P
E 110	2-0-1	Principles of University Teaching and Learning in STEM <i>maximum enrollment: 20 students</i>	01	Dabiri, M	W 13:00 - 14:55	100 PWL/BTH	P
ENGLISH							
Hum/En 021	3-0-6	Monsters and Marvels <i>Attendance at the first class meeting is required. // maximum enrollment: 15 students</i>	01	Jahner, J	TR 09:00 - 10:25	127 BAX	
Hum/En 031	3-0-6	Introduction to Black Literature and Culture in the United States <i>Attendance at the first class meeting is required.</i>	01	Murphy, D	TR 09:00 - 10:25	B119 BAX	

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ENGLISH							
Hum/En 035	3-0-6	Beginning with Poems <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Pigman, G	TR 14:30 - 15:55	127 BAX	
Hum/En 036	3-0-6	American Literature and Culture <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Weinstein, C	TR 14:30 - 15:55	125 BAX	
En 086	3-0-6	Fiction Writing <i>Maximum enrollment: 14 students</i>	01	Lepucki, E	R 19:00 - 21:55	TR DAB	
En 098	+	Reading in English <i>Instructor permission required prior to registering</i>	01	Jahner, J	A	A	P
En 099A	1-0-8	Senior Tutorial for English Majors <i>Instructor permission required prior to registering</i>	01	Staff	A	A	G
En 099B	1-0-8	Senior Tutorial for English Majors <i>Instructor permission required prior to registering</i>	01	Jurca, C	A	A	G
En 101	3-0-6	Recalling the Wild <i>maximum enrollment: 15 students // class full,</i> <i>see instructor for waitlist</i>	01	Holland, J	TR 10:30 - 11:55	127 BAX	
En 115	3-0-6	The Women of Ancient Epic <i>maximum enrollment: 15 students</i>	01	Jahner, J / Pigman, G	TR 13:00 - 14:25	127 BAX	
En 118	3-0-6	Classical Mythology <i>class cancelled</i>	01	Haugen, K	A	A	
En 131	3-0-6	Poe's Afterlife <i>maximum enrollment: 15 students</i>	01	Weinstein, C	TR 13:00 - 14:25	125 BAX	G
En 164	3-0-6	Contemporary Black Diasporic Literature and Culture <i>maximum enrollment: 10 students // class closed,</i> <i>see instructor for waitlist</i>	01	Murphy, D	TR 10:30 - 11:55	B119 BAX	

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ENGLISH							
En 180	3-0-6	Special Topics in English: Cold War American Modernism <i>maximum enrollment: 15 students</i>	01	Sherazi, M	TR 14:30 - 15:55	115 BCK	
En/H 193	3-0-6	Cervantes, Truth or Dare: Don Quixote in an Age of Empire <i>maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Wey-Gomez, N	TR 13:00 - 14:25	128 BAX	G
ENGLISH AS A SECOND LANGUAGE							
ESL101B	3-0-0	Oral Communication and Pronunciation	01	Ashleigh, S	MW 17:00 - 18:25	104 WAT	P
ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE090	+	Undergraduate Laboratory Research in Environmental Science and Engineering	01 02 03 04 05 06 07 08 09 10 11	Leadbetter, J Flagan, R Sessions, A Hoffmann, M Newman, D Thompson, A Bordoni, S Adkins, J Frankenberg, C Yung, Y Wennberg, P	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
ESE100	+	Special Problems in Environmental Engineering Science <i>up to 12 units by arrangement</i>	01 02 03 04 05 06 07 08 09	Schneider, T Ingersoll, A Wennberg, P Hoffmann, M Adkins, J Leadbetter, J Bordoni, S Yung, Y Seinfeld, J	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

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ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE100	+	Special Problems in Environmental Engineering Science <i>up to 12 units by arrangement</i>	10	Orphan, V	A	A	P
			11	Thompson, A	A	A	P
			12	Sessions, A	A	A	P
ESE102	3-0-6	Earth's Oceans	01	Callies, J	MWF 11:00 - 11:55	135 LLB	
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
ESE110B	1-0-0	Seminar in Environmental Science and Engineering	01	Callies, J	W 16:00 - 16:55	Circle Patio ARM	P
ChE/ESE/ME/MS 111	3-0-6	Sustainable Engineering	01	Kornfield, J	TR 11:30 - 12:55	153 NYS	
ME/CE/Ge/ESE 146	3-0-6	Computational Methods for Flow in Porous Media	01	Fu, X	MW 13:00 - 14:25	115 GTL	G

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ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE156	3-0-6	Remote Sensing of the Atmosphere and Biosphere	01	Frankenberg, C	TR 14:30 - 15:55	135 LLB	
ESE/Bi 168	3-0-6	Microbial Metabolic Diversity	01	Newman, D	MWF 09:00 - 09:55	215 NMD	
ESE/Ge/Ch 171	3-0-6	Atmospheric Chemistry I	01	Wennberg, P	TR 13:00 - 14:25	B122 GCL	
ESE/Ch 176	3-0-6	Environmental Physical Organic Chemistry Part I <i>class postponed to spring term</i>	01	Staff	A	A	
Ge/ESE/Bi 178	3-2-4	Microbial Ecology	01	Orphan, V	TR 13:00 - 14:25	162 SMD	
Ge/ESE 298	+	Mentoring and Outreach <i>meets Wednesdays from 11-12:30 in 212 NMD</i>	01	Newman, D	A	A	P
			02	Sessions, A	A	A	P
			03	Fischer, W	A	A	P
			04	Avouac, J / Bucholz, C	A	A	P
			05	Thompson, A	A	A	P
ESE300	+	Thesis Research	01	Adkins, J	A	A	P
			02	Sessions, A	A	A	P
			03	Flagan, R	A	A	P
			04	Hoffmann, M	A	A	P
			05	Ingersoll, A	A	A	P
			06	Leadbetter, J	A	A	P
			07	Newman, D	A	A	P
			08	Bordoni, S	A	A	P
			09	Yung, Y	A	A	P
			10	Wennberg, P	A	A	P
			11	Schneider, T	A	A	P
			12	Seinfeld, J	A	A	P
			13	Eiler, J	A	A	P
			14	Orphan, V	A	A	P
			15	Okumura, M	A	A	P
			16	Thompson, A	A	A	P

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ENVIRONMENTAL SCIENCE & ENGINEERING							
ESE300	+	Thesis Research	17	Fischer, W	A	A	P
			18	Callies, J	A	A	P
			19	Frankenberg, C	A	A	P
FIRST-YEAR SEMINARS							
FS 002	2-0-4	Freshman Seminar: The Evolution of Information Systems: From Life to Artificial <i>class cancelled</i>	01	Bruck, J	A	A	P
FS/Ph 011B	2-0-4	First-Year Seminar: Beyond Physics	01	Phillips, R	A	A	P
GEOLOGY							
Ge 010	2-0-0	Frontiers in Geological and Planetary Sciences	01	Knutson, H	F 12:00 - 12:55	151 ARM	P
Ge 011B	3-3-3	Introduction to Earth and Planetary Sciences: Earth and the Biosphere <i>taught concurrently with Ge 104</i>	01	Kirschvink, J / Fischer, W	W 19:00 - 21:55	251 ARM	
					MWF 14:00 - 14:55	251 ARM	
Ge 011D	3-0-6	Introduction to Earth and Planetary Sciences: Geophysics <i>taught concurrently with Ge 102</i>	01	Clayton, R / Gurnis, M	MWF 09:00 - 09:55	162 SMD	
Ge 040	+	Special Problems for Undergraduates	01	Kirschvink, J	A	A	P
			02	Orphan, V	A	A	P
			03	Lamb, M	A	A	P
			04	Ingersoll, A	A	A	P
			05	Adkins, J	A	A	P
			06	Rossmann, G	A	A	P
			07	Sessions, A	A	A	P
			08	Stevenson, D	A	A	P
			09	Yung, Y	A	A	P
			10	Jackson, J	A	A	P
			11	Fischer, W	A	A	P
			12	Tsai, V	A	A	P
			13	Brown, M	A	A	P

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GEOLOGY							
Ge 040	+	Special Problems for Undergraduates	14	de Kleer, K	A	A	P
			15	Eiler, J	A	A	P
			16	Asimow, P	A	A	P
Ge 041B	+	Undergraduate Research and Bachelor's Thesis	01	Rossmann, G	A	A	P
			02	Kirschvink, J	A	A	P
			03	Grotzinger, J	A	A	P
			04	Orphan, V	A	A	P
			05	Stolper, E	A	A	P
			06	Stock, J	A	A	P
			07	Grotzinger, J	A	A	P
			08	Asimow, P	A	A	P
			09	Brown, M	A	A	P
			10	Fischer, W	A	A	P
			11	Eiler, J	A	A	P
			12	Ingersoll, A	A	A	P
			13	Sessions, A	A	A	P
			14	Leadbetter, J	A	A	P
			15	Lamb, M	A	A	P
			16	Adkins, J	A	A	P
			17	Simons, M	A	A	P
			18	Yung, Y	A	A	P
Ge 102	3-0-6	Introduction to Geophysics <i>taught concurrently with Ge 11D</i>	01	Clayton, R / Gurnis, M	MWF 09:00 - 09:55	162 SMD	
Ge 104	3-0-6	Introduction to Geobiology <i>taught concurrently with Ge 11b</i>	01	Kirschvink, J / Fischer, W	W 19:00 - 21:55	251 ARM	
					MWF 14:00 - 14:55	251 ARM	
Ge 106	3-0-6	Introduction to Structural Geology <i>Field trips dates: 1/14/23; 2/18/23-2/20/23</i>	01	Nourse, J	T 16:30 - 19:25	251 ARM	
					R 17:00 - 19:55	251 ARM	
Ge 109	+	Oral Presentation <i>Section 1: Geophysics // Sections 2-4: Geobiology</i>	01	Jackson, J	T 12:00 - 12:55	254 SMD	P
			02	Sessions, A	A	A	P
			03	Orphan, V	A	A	P
			04	Leadbetter, J	A	A	P

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GEOLOGY							
Ge 111A	3-3-0	Applied Geophysics Seminar and Field Course	01	Clayton, R / Simons, M	MW 10:00 - 10:55	162 SMD	G
Ge 116	1-4-4	Analytical Techniques Laboratory <i>Lab- 4 hours per week, scheduling will vary over the quarter</i>	01	Jackson, J / Asimow, P / Ehlmann, B / Dalleska, N	T 11:00 - 11:55	251 ARM	G
Ge/Ay 117	3-0-6	Bayesian Statistics and Data Analysis	01	Knutson, H	MWF 14:00 - 14:55	162 SMD	
Ge 121B	0-9-3	Advanced Field Geology <i>Field Trip dates: TBA</i>	01	Present, T	OM,W 11:00 - 11:55	251 ARM	G
Ge 122B	1-3-2	Field Geology Seminar	01	Stock, J	OM,W 13:00 - 13:55	215 NMD	P
Ge 123	1-0-2	Continental Crust Seminar	01	Bucholz, C	T 15:00 - 16:25	267 ARM	
Ge 126	2-0-4	Topics in Earth Surface Processes	01	Lamb, M	W 14:00 - 15:55	267 ARM	
Ge/Ay 132	3-0-6	Atomic and Molecular Processes in Astronomy and Planetary Sciences	01	Blake, G	TR 14:30 - 15:55	162 SMD	
Ge 136B	1-0-2	Regional Field Geology of the Southwestern United States	01	Kirschvink, J	OM,W 15:00 - 15:55	REMOTE	P
Ge/Ay 137	3-0-6	Planetary Physics	01	Batygin, K	MWF 13:00 - 13:55	162 SMD	
Ge 140A	3-0-6	Stable Isotope Geochemistry	01	Eiler, J	MWF 10:00 - 10:55	215 NMD	
ME/CE/Ge/ESE 146	3-0-6	Computational Methods for Flow in Porous Media	01	Fu, X	MW 13:00 - 14:25	115 GTL	G
Ge/Ay 159	3-0-6	Astrobiology	01	Yung, Y	MWF 11:00 - 11:55	162 SMD	
Ge 164	3-0-6	Mineral Physics	01	Jackson, J	TR 10:30 - 11:55	162 SMD	G

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GEOLOGY							
Ge 167	3-0-6	Tectonic Geodesy	01	Simons, M	TR 09:00 - 10:25	162 SMD	G
ESE/Ge/Ch 171	3-0-6	Atmospheric Chemistry I	01	Wennberg, P	TR 13:00 - 14:25	B122 GCL	
Ge/ESE/Bi 178	3-2-4	Microbial Ecology	01	Orphan, V	TR 13:00 - 14:25	162 SMD	
ME/Ge/Ae 266A	3-0-6	Fracture and Frictional Faulting	01	Lapusta, N	MW 14:30 - 15:55	115 GTL	G
Ge 271	3-0-6	Dynamics of Seismicity	01	Ross, Z	TR 13:00 - 14:25	256 SMD	
Ge 297	+	Advanced Study	01	Adkins, J	A	A	P
			02	Eiler, J	A	A	P
			03	Clayton, R	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	Stock, J	A	A	P
			09	Sessions, A	A	A	P
			10	Avouac, J	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
			16	Kirschvink, J	A	A	P
			17	Farley, K	A	A	P
			18	Newman, D	A	A	P
			19	Ampuero Saenz, J	A	A	P
			20	Fischer, W	A	A	P
			21	Lamb, M	A	A	P
			22	Rossman, G	A	A	P

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GEOLOGY							
Ge 297	+	Advanced Study	23	Schneider, T	A	A	P
			24	Bordoni, S	A	A	P
			25	Simons, M	A	A	P
			26	Stevenson, D	A	A	P
			27	Ehlmann, B	A	A	P
			28	Stolper, E	A	A	P
			29	Kulkarni, S	A	A	P
			30	Miller, T	A	A	P
			31	Batygin, K	A	A	P
			32	Wennberg, P	A	A	P
			33	Wernicke, B	A	A	P
			34	Aharonson, O	A	A	P
			35	Yung, Y	A	A	P
			36	Lapusta, N	A	A	P
			37	Kulkarni, S	A	A	P
			38	Orphan, V	A	A	P
			39	Tsai, V	A	A	P
			40	Knutson, H	A	A	P
			41	Leadbetter, J	A	A	P
			42	Zhan, Z	A	A	P
			43	Bucholz, C	A	A	P
			44	Leadbetter, J	A	A	P
			45	Tissot, F	A	A	P
			46	Ross, Z	A	A	P
47	de Kleer, K	A	A	P			
Ge/ESE 298	+	Mentoring and Outreach <i>meets Wednesdays from 11-12:30 in 212 NMD</i>	01	Newman, D	A	A	P
			02	Sessions, A	A	A	P
			03	Fischer, W	A	A	P
			04	Avouac, J / Bucholz, C	A	A	P
			05	Thompson, A	A	A	P
Ge 299	+	Thesis Research	01	Adkins, J	A	A	P
			02	Ehlmann, B	A	A	P
			03	Avouac, J	A	A	P

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GEOLOGY							
Ge 299	+	Thesis Research	04	Asimow, P	A	A	P
			05	Blake, G	A	A	P
			06	Brown, M	A	A	P
			07	Clayton, R	A	A	P
			08	Eiler, J	A	A	P
			09	Farley, K	A	A	P
			10	Grotzinger, J	A	A	P
			11	Heaton, T	A	A	P
			13	Gurnis, M	A	A	P
			14	Kirschvink, J	A	A	P
			15	Fischer, W	A	A	P
			16	Newman, D	A	A	P
			17	Orphan, V	A	A	P
			18	Knutson, H	A	A	P
			19	Rossmann, G	A	A	P
			20	Saleeby, J	A	A	P
			21	Lamb, M	A	A	P
			22	Schneider, T	A	A	P
			23	Sessions, A	A	A	P
			24	Bucholz, C	A	A	P
			25	Simons, M	A	A	P
			26	Stevenson, D	A	A	P
			27	Stock, J	A	A	P
			28	Stolper, E	A	A	P
			29	Leadbetter, J	A	A	P
			30	Zhan, Z	A	A	P
			31	Yung, Y	A	A	P
			32	Batygin, K	A	A	P
			33	Wennberg, P	A	A	P
			34	Wernicke, B	A	A	P
			35	Ampuero Saenz, J	A	A	P
			36	Lapusta, N	A	A	P
			37	Kulkarni, S	A	A	P

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GEOLOGY							
Ge 299	+	Thesis Research	38	Jackson, J	A	A	P
			39	Ingersoll, A	A	A	P
			40	Tsai, V	A	A	P
			41	Bordoni, S	A	A	P
			42	Ross, Z	A	A	P
			43	Tissot, F	A	A	P
			44	de Kleer, K	A	A	P
HISTORY							
Hum/H 001	3-0-6	The Classical and Medieval Worlds <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Brown, W	TR 14:30 - 15:55	128 BAX	
Hum/H 008	3-0-6	Civilization, Science, and Archaeology: Before Greece: The Origins of Civilization in Mesopotamia <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Buchwald, J	TR 14:30 - 15:55	TR DAB	
Hum/H 013	3-0-6	Brave New Worlds: Race, Human Rights and the Age of Discovery <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Wey-Gomez, N	TR 09:00 - 10:25	128 BAX	
Hum/H/HPS 014	3-0-6	Race, Science, and Medicine in U.S. History <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	LeBlanc, H	TR 09:00 - 10:25	125 BAX	
Hum/H/HPS 015	3-0-6	Waste in the World <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Rand, L	W 19:00 - 21:55	TR DAB	
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	TR DAB	
H 098	+	Reading in History <i>Instructor permission required prior to</i>	01	Staff	A	A	P

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HISTORY							
H 099B	1-0-8	Research Tutorial <i>Instructor permission required prior to registering</i>	01	Dykstra, M	A	A	
H 107	3-0-6	The Early Middle Ages <i>maximum enrollment: 25 students</i>	01	Brown, W	MWF 13:00 - 13:55	125 BAX	
H/HPS 130	3-0-6	Technology and Environment in America <i>maximum enrollment: 15 students</i>	01	Rand, L	TR 13:00 - 14:25	200 BRD	
H 134	3-0-6	Birds, Evolution, Speciation and Society <i>maximum enrollment: 15 students</i>	01	Lewis, D	T 19:00 - 21:55	125 BAX	G
H/HPS 154	3-0-6	Feminist Science Studies <i>maximum enrollment: 15 students</i>	01	LeBlanc, H	TR 10:30 - 11:55	125 BAX	
H 161	3-0-6	Selected Topics in History: The Southern Civil Rights Movement in the Twentieth Century <i>maximum enrollment: 15 students</i>	01	Thabet, A	TR 10:30 - 11:55	117 DAB	
HPS/H 166	3-0-6	Historical Perspectives on the Relations between Science and Religion <i>maximum enrollment: 15 students</i>	01	Feingold, M	T 19:00 - 21:55	TR DAB	
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	TR DAB	
HPS/H 174	3-0-6	History of Biotechnology <i>maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Kollmer, C	TR 14:30 - 15:55	314 ANB	
HPS/H 176	3-0-6	The Occult Origins of Modern Science: Alchemy, Astrology, and Magic <i>maximum enrollment: 18 students</i>	01	Gaida, M	TR 10:30 - 11:55	115 DAB	
En/H 193	3-0-6	Cervantes, Truth or Dare: Don Quixote in an Age of Empire <i>maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Wey-Gomez, N	TR 13:00 - 14:25	128 BAX	G
HISTORY AND PHILOSOPHY OF SCIENCE							

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HISTORY AND PHILOSOPHY OF SCIENCE							
Hum/H/HPS 014	3-0-6	Race, Science, and Medicine in U.S. History <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	LeBlanc, H	TR 09:00 - 10:25	125 BAX	
Hum/H/HPS 015	3-0-6	Waste in the World <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Rand, L	W 19:00 - 21:55	TR DAB	
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	TR DAB	
HPS102B	2-0-10	Senior Research Seminar <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P
HPS103	1-0-0	Public Lecture Series	01	Kormos-Buchwald, D	A	A	P
HPS/PI/CS 110	3-0-6	Causation and Explanation <i>class full, see instructor for waitlist // maximum enrollment: 15 students</i>	01	Eberhardt, F	TR 13:00 - 14:25	TR DAB	G
HPS/PI 124	3-0-6	Philosophy of Space and Time <i>maximum enrollment: 15 students</i>	01	Hitchcock, C	TR 10:30 - 11:55	128 BAX	
H/HPS 130	3-0-6	Technology and Environment in America <i>maximum enrollment: 15 students</i>	01	Rand, L	TR 13:00 - 14:25	200 BRD	
HPS/PI 139	3-0-6	Human Nature, Welfare, and Sustainability <i>open by lottery only; see link on the REGIS home page to enter by Nov 16th // maximum enrollment: 15 students</i>	01	Quartz, S	TR 14:30 - 15:55	B119 BAX	
H/HPS 154	3-0-6	Feminist Science Studies <i>maximum enrollment: 15 students</i>	01	LeBlanc, H	TR 10:30 - 11:55	125 BAX	
HPS/H 166	3-0-6	Historical Perspectives on the Relations between Science and Religion <i>maximum enrollment: 15 students</i>	01	Feingold, M	T 19:00 - 21:55	TR DAB	

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HISTORY AND PHILOSOPHY OF SCIENCE							
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	TR DAB	
HPS/H 174	3-0-6	History of Biotechnology <i>maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Kollmer, C	TR 14:30 - 15:55	314 ANB	
HPS/H 176	3-0-6	The Occult Origins of Modern Science: Alchemy, Astrology, and Magic <i>maximum enrollment: 18 students</i>	01	Gaida, M	TR 10:30 - 11:55	115 DAB	
HUMANITIES							
Hum/H 001	3-0-6	The Classical and Medieval Worlds <i>Attendance at the first class meeting is required. // maximum enrollment: 15 students</i>	01	Brown, W	TR 14:30 - 15:55	128 BAX	
Hum/H 008	3-0-6	Civilization, Science, and Archaeology: Before Greece: The Origins of Civilization in Mesopotamia <i>Attendance at the first class meeting is required. // maximum enrollment: 15 students</i>	01	Buchwald, J	TR 14:30 - 15:55	TR DAB	
Hum/H 013	3-0-6	Brave New Worlds: Race, Human Rights and the Age of Discovery <i>Attendance at the first class meeting is required. // maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Wey-Gomez, N	TR 09:00 - 10:25	128 BAX	
Hum/H/HPS 014	3-0-6	Race, Science, and Medicine in U.S. History <i>Attendance at the first class meeting is required. // maximum enrollment: 15 students</i>	01	LeBlanc, H	TR 09:00 - 10:25	125 BAX	
Hum/H/HPS 015	3-0-6	Waste in the World <i>Attendance at the first class meeting is required. // maximum enrollment: 15 students</i>	01	Rand, L	W 19:00 - 21:55	TR DAB	
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	TR DAB	

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HUMANITIES							
Hum/En 021	3-0-6	Monsters and Marvels <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Jahner, J	TR 09:00 - 10:25	127 BAX	
Hum/En 031	3-0-6	Introduction to Black Literature and Culture in the United States <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 10 students // class closed, see instructor for waitlist</i>	01	Murphy, D	TR 09:00 - 10:25	B119 BAX	
Hum/En 035	3-0-6	Beginning with Poems <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Pigman, G	TR 14:30 - 15:55	127 BAX	
Hum/En 036	3-0-6	American Literature and Culture <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Weinstein, C	TR 14:30 - 15:55	125 BAX	
Hum/Pl 040	3-0-6	Right and Wrong <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Quartz, S	TR 13:00 - 14:25	B119 BAX	
Hum075	0-0-0	Selected Topics in Humanities: Early 20th Century Analytic Philosophy <i>This course counts as a Freshman Humanities course in the Philosophy discipline. //</i> <i>Attendance at the first class meeting is required.</i> <i>// maximum enrollment: 15 students</i>	01	Eisenthal, J	TR 14:30 - 15:55	121 BCK	
Hum115B	3-0-6	Hispanic Cultures in Film and Literature <i>maximum enrollment: 15 students // taught concurrently with L 115B</i>	01	Garcia, D	MF 16:00 - 17:25	127 BAX	
Hum116	3-0-6	Topics in French Culture <i>maximum enrollment: 15 students // taught concurrently with L 116</i>	01	Orcel, C	TW 19:00 - 19:55 F 17:00 - 17:55	115 DAB 115 DAB	
INFORMATION AND DATA SCIENCES							
ACM/IDS 101B	4-4-4	Methods of Applied Mathematics	01	Bruno, O	TR 14:30 - 16:25	213 ANB	

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INFORMATION AND DATA SCIENCES							
CS/IDS 121	3-0-6	Relational Databases	01	Hovik, M	TR 09:00 - 10:25	105 ANB	G
Ma/ACM/IDS 140A	3-0-6	Probability	01	Russkikh, M	MWF 14:00 - 14:55	310 LINDE	
CMS/CS/EE/IDS 144	3-4-5	Networks: Structure & Economics	01	Wierman, A / Mazumdar, E	MWF 14:30 - 15:55	105 ANB	
EE/CS/IDS 160	3-0-6	Fundamentals of Information Transmission and Storage	01	Kostina, V	MW 10:30 - 11:55	B270 MRE	
CS/IDS 162	3-0-6	Data, Algorithms and Society <i>Taught concurrently with VC 072 //maximum enrollment: 15 students between VC 72 and CS/IDS 162 // instructor permission required to add // apply at https://forms.gle/HxCECWgsUaujvT5d8</i>	01	Ralph, C / Mushkin, H	TR 14:30 - 15:55	106 ANB	
CS/CNS/EE/IDS 165	3-3-6	Foundations of Machine Learning and Statistical Inference	01	Anandkumar, A	TR 13:00 - 14:25	213 ANB	
IDS197	+	Undergraduate Reading in the Information and Data Sciences	01	Staff	A	A	P
IDS198	+	Undergraduate Projects in Information and Data Sciences	01	Wierman, A	A	A	P
			02	Zuev, K	A	A	P
			03	Murray, R	A	A	P
			05	Chandrasekaran, V	A	A	P
			06	Anandkumar, A	A	A	P
IDS199	+	Undergraduate Thesis in the Information and Data Sciences	01	Perona, P	A	A	P
ACM/IDS 216	3-0-6	Markov Chains, Discrete Stochastic Processes and Applications	01	Owhadi, H	TR 09:00 - 10:25	104 ANB	G
LANGUAGES							

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LANGUAGES							
L 102B	3-0-6	Elementary French <i>maximum enrollment: 15 students</i>	01	Orcel, C	MTR 17:00 - 17:55	115 DAB	
L 103B	3-0-6	Intermediate French <i>maximum enrollment: 15 students</i>	01	Merrill, T	M 12:00 - 12:55 W 17:30 - 18:25 F 14:30 - 15:25	115 DAB 115 DAB 115 DAB	
L 106B	4-0-5	Elementary Japanese <i>maximum enrollment: 20 students</i>	01 02	Fujio, M Fujio, M	MTWR 15:00 - 15:55 MTWR 16:00 - 16:55	228 BAX 228 BAX	
L 107B	3-0-6	Intermediate Japanese <i>maximum enrollment: 12 students // Taught by Dr. Hirai</i>	01	Toner, R	MW 16:00 - 17:25	117 DAB	
L 108B	3-0-6	Advanced Japanese <i>maximum enrollment: 12 students // Taught by Dr. Hirai</i>	01	Toner, R	TR 16:00 - 17:25	117 DAB	
L 110B	3-0-6	Elementary Spanish <i>maximum enrollment: 20 students in section 1, 15 students in section 2</i>	01 02	Arjona, G Garcia, D	MW 19:00 - 20:25 MWR 12:00 - 12:55	127 BAX B119 BAX	
L 112B	3-0-6	Intermediate Spanish <i>maximum enrollment: 20 students</i>	01	Arjona, G	MW 13:00 - 14:25	127 BAX	
L 115B	3-0-6	Hispanic Cultures in Film and Literature <i>maximum enrollment: 15 students // taught concurrently with Hum115B</i>	01	Garcia, D	MF 16:00 - 17:25	127 BAX	
L 116	3-0-6	Topics in French Culture <i>maximum enrollment: 15 students // taught concurrently with Hum116</i>	01	Orcel, C	TW 19:00 - 19:55 F 17:00 - 17:55	115 DAB 115 DAB	
L 130B	3-0-6	Elementary German	01	Aebi, A	MWR 13:00 - 13:55	117 DAB	
L 132B	3-0-6	Intermediate German	01	Aebi, A	MWR 12:00 - 12:55	117 DAB	
L 170B	3-0-6	Introduction to Chinese <i>maximum enrollment: 20 students</i>	01	Wang, P	MWF 12:00 - 12:55	125 BAX	

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LANGUAGES							
L 171B	3-0-6	Accelerated Chinese for Heritage Learners <i>maximum enrollment: 20 students</i>	01	Zhu, J	WF 09:00 - 10:25	117 DAB	
L 172B	3-0-6	Intermediate Chinese <i>maximum enrollment: 20 students</i>	01	Zhu, J	WF 10:30 - 11:55	117 DAB	
L 173B	3-0-6	Advanced Chinese <i>maximum enrollment: 20 students</i>	01	Wang, P	TR 16:00 - 17:25	128 BAX	
MATERIALS SCIENCE							
MS 078B	+	Senior Thesis	01	Johnson, W	A	A	P
			02	Falson, J	A	A	P
			03	Greer, J	A	A	P
			04	Atwater, H	A	A	P
			05	Goddard, W	A	A	P
			06	Gharib, M	A	A	P
			07	Minnich, A	A	A	P
			08	Ravichandran, G	A	A	P
			09	Fultz, B	A	A	P
			10	Rossman, G	A	A	P
			11	Faber, K	A	A	P
			12	Daraio, C	A	A	P
			13	See, K	A	A	P
			14	Gao, W	A	A	P
MS 078C	+	Senior Thesis	01	Ravichandran, G	A	A	P
MS 100	+	Advanced Work in Materials Science	01	Faber, K	A	A	P
			02	Fultz, B	A	A	P
			03	Falson, J	A	A	P
			04	Davis, M	A	A	P
			07	Johnson, W	A	A	P
			08	Minnich, A	A	A	P
			09	Greer, J	A	A	P
			10	Atwater, H	A	A	P

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MATERIALS SCIENCE							
MS 100	+	Advanced Work in Materials Science	11	Rossmann, G	A	A	P
APh/MS 105B	3-0-6	States of Matter	01	Fultz, B	TR 09:00 - 10:25	142 KCK	
MS 110B	1-0-0	Materials Research Lectures	01	Falson, J	W 16:00 - 16:55	147 NYS	P
ChE/ESE/ME/MS 111	3-0-6	Sustainable Engineering	01	Kornfield, J	TR 11:30 - 12:55	153 NYS	
MS/ME/MedE 116	3-0-6	Mechanical Behavior of Materials	01	Greer, J	TR 14:30 - 15:55	104 WAT	
MS/APh 122	0-4-5	Diffraction, Imaging, and Structure	01	Ahn, C	OM,T 13:00 - 13:55	111 KCK	
MS 131	3-0-6	Structure and Bonding in Materials	01	Bernardi, M	TR 13:00 - 14:25	104 WAT	
MS/APh 162	3-0-6	Electronic Materials	01	Falson, J	TR 10:30 - 11:55	104 WAT	
MS 200	+	Advanced Work in Materials Science	01	Ortiz, M	A	A	P
			02	Kornfield, J	A	A	P
			03	Atwater, H	A	A	P
			04	Minnich, A	A	A	P
			05	Fultz, B	A	A	P
			06	Goddard, W	A	A	P
			07	Gao, W	A	A	P
			08	Johnson, W	A	A	P
			09	Blake, G	A	A	P
			10	Greer, J	A	A	P
			11	Cushing, S	A	A	P
			12	Daraio, C	A	A	P
			13	Lewis, N	A	A	P
			14	Bhattacharya, K	A	A	P

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MATERIALS SCIENCE							
MS 200	+	Advanced Work in Materials Science	15	Faber, K	A	A	P
			16	Faraon, A	A	A	P
			17	Bernardi, M	A	A	P
			19	Yeh, N	A	A	P
			20	Ahn, C	A	A	P
			21	See, K	A	A	P
			22	Falson, J	A	A	P
MS 300	+	Thesis Research	01	Atwater, H	A	A	P
			02	Ortiz, M	A	A	P
			03	Rosakis, A	A	A	P
			04	Fultz, B	A	A	P
			05	Goddard, W	A	A	P
			06	See, K	A	A	P
			07	Johnson, W	A	A	P
			09	Greer, J	A	A	P
			11	Cross, M	A	A	P
			13	Lewis, N	A	A	P
			14	Bhattacharya, K	A	A	P
			15	Faber, K	A	A	P
			16	Minnich, A	A	A	P
17	Bernardi, M	A	A	P			
18	Falson, J	A	A	P			
19	Cushing, S	A	A	P			
MATHEMATICS							
Ma 001B	4-0-5	Calculus of One and Several Variables and Linear Algebra <i>Sections 1-5 Practical Track -- Sections 6-9 Analytical Track // maximum enrollment: 45 students per section</i>	01	Mantovan, E	MWF 10:00 - 10:55 R 09:00 - 09:55	310 LINDE 107 DWN	P
			02	Mantovan, E	MWF 10:00 - 10:55 R 10:00 - 10:55	310 LINDE 269 LAU	P
			03	Mantovan, E	MWF 10:00 - 10:55 R 13:00 - 13:55	310 LINDE 255 LINDE	P
			04	Mantovan, E	MWF 10:00 - 10:55 R 14:00 - 14:55	310 LINDE 102 STL	P

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MATHEMATICS										
Ma 001B	4-0-5	Calculus of One and Several Variables and Linear Algebra <i>Sections 1-5 Practical Track -- Sections 6-9 Analytical Track // maximum enrollment: 45 students per section</i>	05	Mantovan, E	MWF 10:00 - 10:55 R 10:00 - 10:55	310 LINDE 103 DWN	P			
			06	Graber, T	MWF 10:00 - 10:55 R 13:00 - 13:55	Hameetman Aud CHL 310 LINDE	P			
			07	Graber, T	MWF 10:00 - 10:55 R 14:00 - 14:55	Hameetman Aud CHL B111 DWN	P			
			08	Graber, T	MWF 10:00 - 10:55 R 10:00 - 10:55	Hameetman Aud CHL 310 LINDE	P			
			09	Graber, T	MWF 10:00 - 10:55 R 16:00 - 16:55	Hameetman Aud CHL B111 DWN	P			
			10	Graber, T	MWF 10:00 - 10:55 R 10:00 - 10:55	Hameetman Aud CHL Hameetman Aud CHL	P			
			Ma 001D	2-0-2	Series	01	Graber, T	TR 09:00 - 09:55	Hameetman Aud CHL	
			Ma 003	4-0-5	Introduction to Probability and Statistics <i>taught concurrently with Ma 103 // maximum enrollment: 50 students per section</i>	01	Cvitanic, J	MWF 10:00 - 10:55 R 09:00 - 09:55	Lecture Hall BAX 102 STL	G
						02	Cvitanic, J	MWF 10:00 - 10:55 R 10:30 - 11:25	Lecture Hall BAX 102 STL	G
						03	Cvitanic, J	MWF 10:00 - 10:55 R 13:00 - 13:55	Lecture Hall BAX 107 DWN	G
04	Cvitanic, J	MWF 10:00 - 10:55 R 14:30 - 15:25				Lecture Hall BAX 142 KCK	G			
05	Cvitanic, J	MWF 10:00 - 10:55 R 16:00 - 16:55				Lecture Hall BAX 103 DWN	G			
06	Cvitanic, J	MWF 10:00 - 10:55 R 10:30 - 11:25				Lecture Hall BAX B111 DWN	G			
07	Cvitanic, J	MWF 10:00 - 10:55 R 13:00 - 13:55				Lecture Hall BAX 289 LINDE	G			
08	Cvitanic, J	MWF 10:00 - 10:55 R 14:30 - 15:25				Lecture Hall BAX 103 DWN	G			

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MATHEMATICS							
Ma 005B	3-0-6	Introduction to Abstract Algebra <i>taught concurrently with Ma 105b</i>	01	Aluffi, P	MWF 09:00 - 09:55	387 LINDE	
Ma/CS 006B	3-0-6	Introduction to Discrete Mathematics	01	Conlon, D	MWF 13:00 - 13:55	387 LINDE	
Ma 013	2-0-0	Problem Solving in Vector Calculus	01	Graber, T	TR 19:30 - 20:55	Hameetman Aud CHL	P
Ma 092B	+	Senior Thesis	01	Mantovan, E	A	A	P
			02	Marcolli, M	A	A	P
			03	Burungale, A	A	A	P
			04	Zhu, X	A	A	P
			05	Katz, N	A	A	P
			06	Yu, T	A	A	P
			07	Song, A	A	A	P
			08	Tamuz, O	A	A	P
Ma 097	+	Research in Mathematics	01	Burungale, A	A	A	P
			02	Mantovan, E	A	A	P
			03	Szumowicz, A	A	A	P
			04	Conlon, D	A	A	P
			05	Tamuz, O	A	A	P
			06	Vigneaux Ariztia, J	A	A	P
			07	Yu, T	A	A	P
Ma 098	+	Independent Reading	01	Katz, N	A	A	P
			02	Chen, L	A	A	P
			03	Flach, M	A	A	P
			04	Yu, T	A	A	P
Ma 103	4-0-5	Introduction to Probability and Statistics <i>taught concurrently with Ma 3</i>	01	Cvitanic, J	MWF 10:00 - 10:55 R 13:00 - 13:55	Lecture Hall BAX 107 DWN	
Ma 105B	3-0-6	Introduction to Abstract Algebra <i>taught concurrently with Ma 5b</i>	01	Aluffi, P	MWF 09:00 - 09:55	387 LINDE	

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MATHEMATICS							
Ma/CS 106B	3-0-6	Introduction to Discrete Mathematics	01	Conlon, D	MWF 13:00 - 13:55	387 LINDE	
Ma 108B	3-0-6	Classical Analysis	01	Katz, N	MWF 11:00 - 11:55	310 LINDE	
Ma 109B	3-0-6	Introduction to Geometry and Topology	01	Jang, H	MWF 10:00 - 10:55	387 LINDE	
Ma 110B	3-0-6	Analysis	01	Makarov, N	MWF 11:00 - 11:55	255 LINDE	
Ma/CS 117B	3-0-6	Computability Theory	01	Ervin, G	TR 13:00 - 14:25	387 LINDE	
Ma 120B	3-0-6	Abstract Algebra	01	Buelles, T	MWF 09:00 - 09:55	255 LINDE	
Ma 121B	3-0-6	Combinatorial Analysis	01	Schuelke, B	TR 14:00 - 14:55	255 LINDE	
Ma 130B	3-0-6	Algebraic Geometry	01	Oswal, A	MWF 13:00 - 13:55	255 LINDE	
Ma/ACM/IDS 140A	3-0-6	Probability	01	Russkikh, M	MWF 14:00 - 14:55	310 LINDE	
Ma 148B	3-0-6	Topics in Mathematical Physics	01	Marculli, M	TR 09:00 - 10:25	187 LINDE	P
Ma 151B	3-0-6	Algebraic and Differential Topology	01	Ni, Y	MWF 10:00 - 10:55	255 LINDE	
Ma 157B	3-0-6	Riemannian Geometry	01	Jang, H	MWF 13:00 - 13:55	289 LINDE	
Ma 160B	3-0-6	Number Theory	01	Szumowicz, A	MWF 14:00 - 14:55	289 LINDE	
Ma 191B	3-0-6	Selected Topics in Mathematics	01	Song, A	TR 10:30 - 11:55	289 LINDE	
		<i>Section 1: Topics in minimal surface theory //</i>	02	Makarov, N	MW 13:30 - 14:55	187 LINDE	
		<i>Section 2: Gaussian Free Field // Section 3:</i>					

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MATHEMATICS							
Ma 191B	3-0-6	Selected Topics in Mathematics <i>Section 1: Topics in minimal surface theory //</i> <i>Section 2: Gaussian Free Field // Section 3:</i> <i>Three-dimensional Kakeya problems</i>	03	Wu, S	TR 13:00 - 14:25	187 LINDE	
Ma 290	+	Reading	01	Conlon, D	A	A	P
			02	Flach, M	A	A	P
			03	Graber, T	A	A	P
			04	Hutchcroft, 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
			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	Yu, T	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	Cvitanić, J	A	A	P
			24	Owhadi, H	A	A	P
			25	Burungale, A	A	A	P
Ma 390	+	Research	01	Conlon, D	A	A	P
			02	Flach, M	A	A	P
			03	Hutchcroft, T	A	A	P
			04	Graber, T	A	A	P
			05	Isett, P	A	A	P

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MATHEMATICS										
Ma 390	+	Research	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			
			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	Yu, T	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			
			25	Burungale, A	A	A	P			
			26	Wang, L	A	A	P			
			MECHANICAL ENGINEERING							
			ME 011B	3-0-6	Thermal Science	01	Hunt, M	MWF 14:00 - 14:55	135 GTL	G
			ME 012B	3-0-6	Mechanics	01	Mello, M	TR 13:00 - 14:25	135 GTL	
			ME 013	0-4-0	Mechanical Prototyping <i>Students must submit a questionnaire at https://registrar.caltech.edu/ME13-113WI2023 // Students will be notified of acceptance on Nov 29 // Max enrollment: 36 students between ME13 and 113.</i>	01	Stovall, P	OM,W 15:00 - 15:55	B224 SPL	P

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MECHANICAL ENGINEERING							
ME 050A	0-6-3	Experiments and Modeling in Mechanical Engineering	01	Mello, M	MWF 11:00 - 11:55	135 GTL	G
ME 072B	1-8-0	Engineering Design Laboratory	01	Mello, M / Stovall, P	TR 15:00 - 16:25	135 GTL	G
ME 090B	0-9-0	Senior Thesis, Experimental	01	Ames, A	A	A	G
ME 100	+	Independent Studies in Mechanical Engineering	01	Colonus, T	A	A	P
			02	Burdick, J	A	A	P
			03	Scherer, A	A	A	P
			04	Phillips, R	A	A	P
			05	Ames, A	A	A	P
			07	Tai, Y	A	A	P
			08	Hunt, M	A	A	P
			09	Minnich, A	A	A	P
			10	Fu, X	A	A	P
			11	Blanquart, G	A	A	P
			12	Perona, P	A	A	P
			13	Doyle, J	A	A	P
			14	Daraio, C	A	A	P
			15	Gharib, M	A	A	P
			16	Murray, R	A	A	P
			17	McKeon, B	A	A	P
			18	Mawet, D	A	A	P
Ae/APh/CE/ME 101B	3-0-6	Fluid Mechanics	01	Colonus, T	MWF 10:00 - 10:55	135 GTL	G
Ae/AM/CE/ME 102B	3-0-6	Mechanics of Structures and Solids	01	Rosakis, A	TR 09:00 - 10:25	135 GTL	G
ME 110	+	Special Laboratory Work in Mechanical Engineering	01	Shepherd, J	A	A	
			02	Scherer, A	A	A	
			03	Ravichandran, G	A	A	
			04	Burdick, J	A	A	

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MECHANICAL ENGINEERING							
ME 110	+	Special Laboratory Work in Mechanical Engineering	05	Ames, A	A	A	
ChE/ESE/ME/MS 111	3-0-6	Sustainable Engineering	01	Kornfield, J	TR 11:30 - 12:55	153 NYS	
ME 113	0-4-0	Mechanical Prototyping <i>Students must submit a questionnaire at https://registrar.caltech.edu/ME13-113WI2023 // Students will be notified of acceptance on Nov 29 // Max enrollment: 36 students between ME13 and 113.</i>	01	Stovall, P	OM,W 15:00 - 15:55	B224 SPL	P
MS/ME/MedE 116	3-0-6	Mechanical Behavior of Materials	01	Greer, J	TR 14:30 - 15:55	104 WAT	
ME/CS/EE 133B	3-2-4	Robotics	01	Niemeyer, G	MWF 15:00 - 15:55	135 GTL	
ME/CS/EE 134	1-7-1	Robotic Systems	01	Niemeyer, G	MWF 13:00 - 13:55	135 GTL	
ME/CE/Ge/ESE 146	3-0-6	Computational Methods for Flow in Porous Media	01	Fu, X	MW 13:00 - 14:25	115 GTL	G
AM/CE/ME 150B	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	135 GTL	P
ME 200	+	Advanced Work in Mechanical Engineering	01 02 03 05	Burdick, J Murray, R Ravichandran, G Brady, J	A A A A	A A A A	P P P P
Ae/ACM/ME 232B	3-0-6	Computational Fluid Dynamics	01	Meiron, D	MWF 14:00 - 14:55	384 FIR	
ME/CDS/EE 234A	3-3-3	Advanced Robotics: Planning	01	Burdick, J	TR 14:30 - 15:55	115 GTL	G
ME/Ge/Ae 266A	3-0-6	Fracture and Frictional Faulting	01	Lapusta, N	MW 14:30 - 15:55	115 GTL	G

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MECHANICAL ENGINEERING							
ME 300	+	Research in Mechanical Engineering	01	Blanquart, G	A	A	P
			02	Fultz, B	A	A	P
			03	Burdick, J	A	A	P
			04	Colonus, T	A	A	P
			05	Chung, S	A	A	P
			06	Hunt, M	A	A	P
			07	Murray, R	A	A	P
			08	Lewis, N	A	A	P
			09	Bhattacharya, K	A	A	P
			10	Shepherd, J	A	A	P
			11	Andrade, J	A	A	P
			12	Bellan, P	A	A	P
			13	Leonard, A	A	A	P
			14	Ortiz, M	A	A	P
			15	Pachter, L	A	A	P
			16	Greer, J	A	A	P
			17	Lapusta, N	A	A	P
			18	Gharib, M	A	A	P
			19	Troian, S	A	A	P
			20	Brady, 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	Adkins, J	A	A	P
			26	Kochmann, D	A	A	P
			27	McKeon, B	A	A	P
			28	Hoffmann, M	A	A	P
			29	Asimaki, D	A	A	P
			30	Minnich, A	A	A	P
			31	van de Walle, A	A	A	P
			32	Scherer, A	A	A	P
			33	Ames, A	A	A	P

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MECHANICAL ENGINEERING							
ME 300	+	Research in Mechanical Engineering	34	Pellegrino, S	A	A	P
			35	Heath, J	A	A	P
			37	Schneider, T	A	A	P
			38	Stuart, A	A	A	P
			39	Rosakis, A	A	A	P
			40	Dabiri, J	A	A	P
			41	Fu, X	A	A	P
			42	Heaton, T	A	A	P
			43	Bae, H	A	A	P
			44	Avouac, J	A	A	P
MEDICAL ENGINEERING							
MedE 099	+	Undergraduate Research in Medical Engineering	01	Petrasek, D	A	A	P
			02	Shapiro, M	A	A	P
			03	Tai, Y	A	A	P
			04	Gao, W	A	A	P
			05	Pickar, K	A	A	P
			06	Wang, L	A	A	P
MedE 100B	1-0-0	Medical Engineering Seminar	01	Tai, Y / Gao, W	R 16:00 - 16:55	105 ANB	P
ChE/BE/MedE 112	3-0-6	Creativity and Technological Innovation with Microfluidic Systems <i>Maximum enrollment: 20 students</i>	01	Ismagilov, R	TR 13:00 - 14:25	101 SCH	
EE/MedE 114A	4-0-8	Analog Circuit Design	01	Hajimiri, S	TR 09:00 - 10:55	B270 MRE	
MS/ME/MedE 116	3-0-6	Mechanical Behavior of Materials	01	Greer, J	TR 14:30 - 15:55	104 WAT	
MedE/EE/BE 168C	4-0-5	Biomedical Optics: Principles and Imaging	01	Wang, L	TF 15:30 - 17:25	142 KCK	G
EE/BE/MedE 185	3-0-6	Micro/Nano Technology for Semiconductor and Medical Device	01	Tai, Y	MW 10:30 - 11:55	142 KCK	

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MEDICAL ENGINEERING							
ChE/BE/MedE 188	3-0-6	Molecular Imaging	01	Shapiro, M	W 19:00 - 21:55	113 SPL	
MedE 199	3-0-6	Special Topics in Medical Engineering: Medical Polymers	01	Ghodsi, S	TR 10:30 - 11:55	142 KCK	G
MedE 201	3-0-6	Introduction to Medical Devices	01	Gao, W	MW 13:00 - 14:25	142 KCK	G
MedE 202	3-0-6	Sensors in Medicine	01	Gao, W	MW 09:00 - 10:25	142 KCK	G
MedE 204	3-0-6	Principles and Designs of Medical Neuromodulation Devices	01	Tai, Y	MW 12:30 - 13:55	128 BAX	G
MedE 291	+	Research in Medical Engineering	01	Burdick, J	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
			09	Scherer, A	A	A	P
			10	Tai, Y	A	A	P
			11	Yang, C	A	A	P
			12	Chandy, K	A	A	P
			14	Colonus, T	A	A	P
			16	Ismagilov, R	A	A	P
			17	Shapiro, M	A	A	P
			18	Wang, L	A	A	P
			19	Pachter, L	A	A	P
			20	Gradinaru, V	A	A	P
			21	Daraio, C	A	A	P
			22	Kornfield, J	A	A	P
			24	Thomson, M	A	A	P

MUSIC

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MUSIC							
Mu 053	3-0-6	Listening to Music <i>maximum enrollment: 15 students</i>	01	Lu, B	MW 11:00 - 12:25	B133 BAX	
Mu 139	3-0-6	Themes in Western Music History and Historiography: 1800-Present <i>maximum enrollment: 15 students</i>	01	Lu, B	MW 14:00 - 15:25	B133 BAX	
NEUROBIOLOGY							
NB/Bi/BE 155	3-0-3	Neuropharmacology	01	Lester, H	MW 09:00 - 10:25	B136 KRK	G
PL/CNS/NB/Bi/Psy 167	3-0-6	Consciousness <i>open by application only, apply at http://registrar.caltech.edu/PL167 by Nov 16th // maximum enrollment: 20 students</i>	01	Eberhardt, F / Adolphs, R	TR 10:30 - 11:55	130 CNRB	G
CNS/Bi/EE/CS/NB 186	4-4-4	Vision: From Computational Theory to Neuronal Mechanisms <i>class cancelled</i>	01	Staff	A	A	
NB/Bi/CNS 220	2-0-4	Genetic Dissection of Neural Circuit Function	01	Anderson, D	R 15:00 - 17:55	340A CNRB	
CNS/Bi/NB 247	2-0-4	Cerebral Cortex	01	Andersen, R	TR 13:00 - 13:55	333 BBB	
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

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NEUROBIOLOGY							
NB 299	+	Graduate Research	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
			22	Zinn, K	A	A	P
			23	Parker, J	A	A	P
			24	Yue, Y	A	A	P
			25	Elowitz, M	A	A	P
			26	Mazmanian, S	A	A	P
PERFORMING AND VISUAL ARTS							
PVA030B	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	Fr Rehearsal Hall HAM	P
			02	Elgart, M	T 15:30 - 16:25	Fr Rehearsal Hall HAM	P
			03	Elgart, M	T 17:30 - 18:25	Fr Rehearsal Hall HAM	P
PVA031B	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	Fr Rehearsal Hall HAM	P
			02	Ward, R	OM,A	Fr Rehearsal Hall HAM	P
			03	Elgart, M	OM,A	Fr Rehearsal Hall HAM	P
PVA032B	0-3-0	Symphony Orchestra	01	Price, G	T 19:30 - 22:15	Fr Rehearsal Hall HAM	P
PVA033B	0-3-0	Wind Orchestra	01	Price, G	R 19:30 - 21:45	Fr Rehearsal Hall HAM	P
PVA034B	0-3-0	Jazz Band/Jazz Improvisation	01	Catlin, B	W 19:30 - 21:15	Fr Rehearsal Hall HAM	P
					W 21:30 - 22:55	Fr Rehearsal Hall HAM	

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PERFORMING AND VISUAL ARTS							
PVA035B	0-3-0	Glee Club	01	Sulahian, N	M 19:00 - 20:25 W 17:05 - 18:35	Fr Rehearsal Hall HAM Fr Rehearsal Hall HAM	P
PVA037B	0-3-0	Chamber Singers	01	Sulahian, N	M 20:40 - 21:55	Fr Rehearsal Hall HAM	P
PVA040B	2-0-1	Theater Arts Production	01	Brophy, B	W 19:00 - 20:25	Ramo Auditorium BAX	P
PVA041B	2-0-1	Storytelling for Scientists	01	Brophy, B	W 19:00 - 20:25	Ramo Auditorium BAX	P
PVA042B	2-0-1	Improvisation for Scientists	01	Brophy, B	W 20:30 - 21:55	Ramo Auditorium BAX	P
PVA061B	0-3-0	Silkscreen and Silk Painting <i>max enrollment: 20 students</i>	01	Barry, J	M 19:00 - 21:55	Garage TCT	P
PVA062B	0-3-0	Drawing and Painting <i>max enrollment: 17 students in section 1 and 20 students in section 2</i>	01 02	Barry, J Barry, J	T 19:00 - 21:55 W 19:00 - 21:55	Garage TCT Garage TCT	P P
PVA063B	0-3-0	Ceramics <i>maximum enrollment: 10 students</i>	01	Plunkett, L	R 19:00 - 21:55	POLY	P
PHILOSOPHY							
Hum/PI 040	3-0-6	Right and Wrong <i>Attendance at the first class meeting is required. // maximum enrollment: 15 students</i>	01	Quartz, S	TR 13:00 - 14:25	B119 BAX	
PI 090A	1-0-8	Senior Thesis	01	Quartz, S	A	A	G
PI 090B	1-0-8	Senior Thesis <i>Instructor permission required prior to registering</i>	01	Eberhardt, F	A	A	
PI 098	+	Reading in Philosophy	01	Hitchcock, C	A	A	P

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PHILOSOPHY							
PI 100	3-0-6	Free Will <i>maximum enrollment: 15 students // class will meet in CNRB 240A on 1/17/23</i>	01	Hitchcock, C	TR 14:30 - 15:55	130 CNRB	
HPS/PI/CS 110	3-0-6	Causation and Explanation <i>class full, see instructor for waitlist // maximum enrollment: 15 students</i>	01	Eberhardt, F	TR 13:00 - 14:25	TR DAB	G
HPS/PI 124	3-0-6	Philosophy of Space and Time <i>maximum enrollment: 15 students</i>	01	Hitchcock, C	TR 10:30 - 11:55	128 BAX	
HPS/PI 139	3-0-6	Human Nature, Welfare, and Sustainability <i>open by lottery only; see link on the REGIS home page to enter by Nov 16th // maximum enrollment: 15 students</i>	01	Quartz, S	TR 14:30 - 15:55	B119 BAX	
PI/CNS/NB/Bi/Psy 167	3-0-6	Consciousness <i>open by application only, apply at http://registrar.caltech.edu/PL167 by Nov 16th // maximum enrollment: 20 students</i>	01	Eberhardt, F / Adolphs, R	TR 10:30 - 11:55	130 CNRB	G
PHYSICAL EDUCATION							
PE 002	3-0-0	Student Designed Fitness <i>may only be taken once // maximum enrollment: 18 students</i>	01	Gillis, D	TR 13:00 - 14:25	BAC	P
PE 003	3-0-0	Hiking <i>may only be taken once // maximum enrollment: 20 students</i>	01	Gillis, D / Herbison, J	F 09:00 - 12:55	BAC	P
PE 004	3-0-0	Introduction to Power Walking <i>maximum enrollment: 18 students</i>	01	Weintraub, B	MW 09:00 - 10:25	BAC	P
PE 005	3-0-0	Beginning Running <i>maximum enrollment: 18 students</i>	01	Blake, K	TR 09:00 - 10:25	BAC	P
PE 006	3-0-0	Core Training, Beginning/Intermediate <i>maximum enrollment: 18 students</i>	01	Morgan, H	TR 10:30 - 11:55	BAC	P
PE 010	3-0-0	Aerobic Dance <i>maximum enrollment: 18 students</i>	01	Waterman, D	MW 15:00 - 16:25	BAC	P

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PHYSICAL EDUCATION							
PE 024	3-0-0	Yoga, Beginning <i>maximum enrollment: 18 students per section</i>	01	Chiang, N	MW 11:00 - 12:25	BAC	P
			02	Chiang, N	TR 09:00 - 10:25	BAC	P
PE 031	3-0-0	Indoor Cycling <i>maximum enrollment: 16 students</i>	01	Morgan, H	MW 09:00 - 10:25	BAC	P
PE 036	3-0-0	Swimming, Beginning/Intermediate <i>maximum enrollment: 8 students</i>	01	Bonafede, J	TR 13:00 - 14:25	BAC	P
PE 054	3-0-0	Racquetball, Beginning and Intermediate <i>maximum enrollment: 8 students</i>	01	Gardner, T	MW 13:00 - 14:25	BAC	P
PE 056	3-0-0	Squash, Beginning, Intermediate, Advanced <i>maximum enrollment: 6 students</i>	01	Clark, J	TR 10:30 - 11:55	BAC	P
PE 060	3-0-0	Tennis, Beginning and Intermediate <i>maximum enrollment: 16 students</i>	01	Brisotti, M	MW 13:00 - 14:25	BAC	P
PE 070	3-0-0	Weight Training, Beginning <i>maximum enrollment: 16 students</i>	01	Daly, S	MW 10:00 - 11:25	BAC	P
PE 077	3-0-0	Volleyball, Beginning and Intermediate <i>maximum enrollment: 16 students</i>	01	Gardner, T	MW 10:00 - 11:25	BAC	P
PE 081	3-0-0	Bouldering <i>maximum enrollment: 12 students</i>	01	Herbison, J	TR 13:00 - 14:25	BAC	P
PE 082	3-0-0	Rock Climbing, Beginning and Intermediate <i>maximum enrollment: 12 students</i>	01	Herbison, J	TR 14:30 - 15:55	BAC	P
PE 085A	3-0-0	Intercollegiate Track and Field Teams <i>Open to NCAA eligible students only // men and women</i>	01	Blake, K	MTWRFS 16:00 - 17:55	BAC	P
PE 087B	3-0-0	Intercollegiate Swimming and Diving Teams <i>Open to NCAA eligible students only</i>	01	Brabson, A	MTWRFS 16:00 - 17:55	BAC	P
PE 090B	3-0-0	Intercollegiate Water Polo Teams <i>Open to NCAA eligible students only // men and women</i>	01	Bonafede, J	MTWRFS 16:00 - 17:55	BAC	P

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PHYSICAL EDUCATION							
PE 091B	3-0-0	Intercollegiate Basketball Teams <i>Open to NCAA eligible students only</i>	01	Tarakchian, A / Eslinger, O	MTWRFS 16:00 - 17:55	BAC	P
PE 093A	3-0-0	Intercollegiate Baseball Team <i>Open to NCAA eligible students only</i>	01	Whitehead, K	MTWRFS 16:00 - 17:55	BAC	P
PE 095A	3-0-0	Intercollegiate Tennis Teams <i>Open to NCAA eligible students only</i>	01	Weintraub, B / Brisotti, M	MTWRFS 16:00 - 17:55	BAC	P
PHYSICS							
Ph 001B	4-0-5	Classical Mechanics and Electromagnetism <i>Practical Track- Sections 1-5 // Analytical Track - Sections 6-10//Maximum Enrollment: 35 students per section</i>	01	Refael, G	WF 15:00 - 15:55	201 BRG	P
					MR 13:00 - 13:55	102 STL	
			02	Refael, G	WF 15:00 - 15:55	201 BRG	P
					MR 13:00 - 13:55	119 KRK	
			03	Refael, G	WF 15:00 - 15:55	201 BRG	P
					MR 15:00 - 15:55	B111 DWN	
			04	Refael, G	WF 15:00 - 15:55	201 BRG	P
					MR 15:00 - 15:55	102 STL	
			05	Refael, G	WF 15:00 - 15:55	201 BRG	P
					MR 15:00 - 15:55	269 LAU	
Ph 001B	4-0-5	Classical Mechanics and Electromagnetism <i>Practical Track- Sections 1-5 // Analytical Track - Sections 6-10//Maximum Enrollment: 35 students per section</i>	06	Hsieh, D	WF 11:00 - 11:55	201 BRG	P
					MR 15:00 - 15:55	310 LINDE	
			07	Hsieh, D	WF 11:00 - 11:55	201 BRG	P
					MR 13:00 - 13:55	B111 DWN	
			08	Hsieh, D	WF 11:00 - 11:55	201 BRG	P
					MR 13:00 - 13:55	273 CHL	
			09	Hsieh, D	WF 11:00 - 11:55	201 BRG	P
					MR 13:00 - 13:55	469 LAU	
			10	Hsieh, D	WF 11:00 - 11:55	201 BRG	P
					MR 15:00 - 15:55	107 DWN	
Ph 002B	4-0-5	Waves, Quantum Mechanics, and Statistical Physics <i>Maximum enrollment: 35 students per section</i>	01	Cheung, C	WF 11:00 - 11:55	107 DWN	G
					TR 11:00 - 11:55	269 LAU	
			02	Cheung, C	WF 13:00 - 13:55	102 STL	G
					TR 11:00 - 11:55	269 LAU	

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PHYSICS							
Ph 002B	4-0-5	Waves, Quantum Mechanics, and Statistical Physics <i>Maximum enrollment: 35 students per section</i>	03	Cheung, C	WF 09:00 - 09:55 TR 11:00 - 11:55	102 STL 269 LAU	G
Ph 003	0-3-3	Introductory Physics Laboratory <i>Maximum enrollment: 24 students per section</i>	01 02 03	Black, E / Libbrecht, K Black, E / Libbrecht, K Black, E / Libbrecht, K	W 13:00 - 15:55 R 13:00 - 15:55 F 13:00 - 15:55	308 BRG 308 BRG 308 BRG	
Ph 006	0-9-0	Physics Laboratory <i>maximum enrollment: 40 students</i>	01	Rice, F / Politzer, H	OM,A	A	
Ph 008B	0-3-0	Experiments in Electromagnetism <i>Maximum enrollment: 13 students</i>	01	Spiropulu, M	OM,A	201 BRG	P
FS/Ph 011B	2-0-4	First-Year Seminar: Beyond Physics	01	Phillips, R	A	A	P
Ph 012B	4-0-5	Waves, Quantum Physics, and Statistical Mechanics	01	McCuller, L	TR 10:30 - 11:55	201 BRG	G
Ph 020	0-6-0	Computational Physics Laboratory I	01	Mach, C / Weinstein, A	M 14:00 - 15:55	183 LINDE	P
Ph 021	0-6-0	Computational Physics Laboratory II	01	Mach, C / Weinstein, A	T 15:00 - 15:55 F 14:00 - 14:55	183 LINDE 183 LINDE	P
Ph 070	2-0-4	Oral and Written Communication	01	Hitlin, D	T 14:00 - 15:55	469 LAU	G
Ph 077A	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,W 15:00 - 15:55	210 BRG	
Ph 077B	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,W 15:00 - 15:55	210 BRG	
Ph 077C	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,W 15:00 - 15:55	210 BRG	
Ph 078B	+	Senior Thesis (Experiment)	01	Libbrecht, K	A	A	P

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PHYSICS							
Ph 079B	+	Senior Thesis (Theory)	01	Libbrecht, K	A	A	P
Ph 106B	4-0-5	Topics in Classical Physics	01	Golwala, S	TR 10:30 - 11:55	107 DWN	
APh/Ph 112A	3-0-6	Noise and Stochastic Resonance	01	Troian, S	TR 14:30 - 15:55	111 KCK	
Ph/APh/EE/BE 118A	3-0-6	Physics of Measurement	01	Roukes, M	TR 14:30 - 15:55	387 LINDE	
Ph 121B	0-6-0	Computational Physics Lab	01	Simmons-Duffin, D	TR 14:30 - 15:25	370 CHL	P
Ph 125B	4-0-5	Quantum Mechanics	01	Porter, F	MWF 10:00 - 10:55	107 DWN	
Ph 127B	4-0-5	Statistical Physics of Interacting Systems, Phases, and Phase Transitions	01	Motrunich, O	MW 13:00 - 14:25	107 DWN	
Ph 129B	4-0-5	Mathematical Methods of Physics <i>PDE's</i>	01	Chatzioannou, K	MW 14:30 - 15:55	121 BCK	
Ph 136B	3-0-6	Applications of Classical Physics	01	Fuller, J	TR 13:00 - 14:25	269 LAU	
Ph/APh 137B	3-0-6	Atoms and Photons	01	Endres, M	TR 10:30 - 11:55	387 LINDE	
Ph 139	3-0-6	Introduction to Elementary Particle Physics	01	Weinstein, A	TR 13:00 - 14:25	103 DWN	
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

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PHYSICS							
Ph 171	+	Reading and Independent Study	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
			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

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PHYSICS							
Ph 171	+	Reading and Independent Study	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
			49	Stone, E	A	A	P
			50	Teukolsky, S	A	A	P
			51	Troian, 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
			57	Rangel, A	A	A	P
			58	Zurek, K	A	A	P
			59	McCuller, L	A	A	P
			60	Ghaffari, A	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

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PHYSICS							
Ph 172	+	Research in Physics	13	Kimble, H	A	A	P
			14	Knutson, H	A	A	P
			15	Libbrecht, K	A	A	P
			16	Martin, C	A	A	P
			17	Mawet, D	A	A	P
			18	Nad Perge, S	A	A	P
			19	Newman, H	A	A	P
			20	Oguri, H	A	A	P
			21	Painter, O	A	A	P
			22	Patterson, R	A	A	P
			23	Phillips, R	A	A	P
			24	Porter, F	A	A	P
			25	Prince, T	A	A	P
			26	Rosenbaum, T	A	A	P
			27	Roukes, M	A	A	P
			28	Scherer, A	A	A	P
			29	Schwab, K	A	A	P
			30	Spiropulu, M	A	A	P
			31	Stone, E	A	A	P
			32	Weinstein, A	A	A	P
			33	Yeh, N	A	A	P
			34	Zmuidzinas, J	A	A	P
			35	Kirby, E	A	A	P
			36	Yue, Y	A	A	P
			37	Wise, M	A	A	P
			38	Simmons-Duffin, D	A	A	P
			39	Refael, G	A	A	P
			40	Preskill, J	A	A	P
			41	Bernardi, M	A	A	P
			42	Hopkins, P	A	A	P
			43	Kapustin, A	A	A	P
			44	Gukov, S	A	A	P
			45	Cheung, C	A	A	P

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PHYSICS							
Ph 172	+	Research in Physics	46	Chen, Y	A	A	P
			47	Chen, X	A	A	P
			48	Guadalupe Dos Santos Lins Brandao, F	A	A	P
			49	Faraon, A	A	A	P
			50	Alicea, J	A	A	P
			51	Bellan, P	A	A	P
			52	Teukolsky, S	A	A	P
			53	Ravi, V	A	A	P
			54	Zurek, K	A	A	P
			56	Chan, G	A	A	P
			57	Chatziioannou, K	A	A	P
			58	Dore, O	A	A	P
			61	Bradford, C	A	A	P
			62	Bellan, P	A	A	P
			63	McCuller, L	A	A	P
			64	Kasliwal, M	A	A	P
			65	Gregoire, J	A	A	P
			66	Motrunich, O	A	A	P
			67	Wang, Z	A	A	P
68	Ghaffari, A	A	A	P			
69	Wang, L	A	A	P			
Ph 177	0-4-5	Advanced Experimental Physics	01	Hutzler, N / Rice, F	OM,W 16:00 - 16:55	304 BRG	
Ph 205B	3-0-6	Relativistic Quantum Field Theory	01	Wise, M	MW 10:30 - 11:55	103 DWN	P
Ph/CS 219B	3-0-6	Quantum Computation	01	Kitaev, A	MW 14:30 - 15:55	103 DWN	P
Ph/APh 223A	3-0-6	Advanced Condensed-Matter Physics	01	Alicea, J	MW 09:00 - 10:25	103 DWN	
Ph 229A	3-0-6	Advanced Mathematical Methods of Physics	01	Kapustin, A	TR 10:30 - 11:55	219 CHL	P

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PHYSICS							
Ph 230B	3-0-6	Elementary Particle Theory	01	Oguri, H	MW 09:00 - 10:25	469 LAU	
Ph 235B	3-0-6	Theoretical Cosmology and Astroparticle Physics	01	Zurek, K	W 12:00 - 13:25	469 LAU	P
Ph 242B	2-0-2	Physics Seminar	01	Patterson, R	F 11:00 - 11:55	269 LAU	P
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	A	A	P
				Lins Brandao, F			
			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
			22	Kapustin, A	A	A	P
			23	Kimble, H	A	A	P
			24	Kitaev, A	A	A	P
			25	Knutson, H	A	A	P

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PHYSICS							
Ph 300	+	Thesis Research	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
			49	Stone, E	A	A	P
			50	Teukolsky, S	A	A	P
			51	Troian, 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
			57	Marcolli, M	A	A	P
			58	Ravi, V	A	A	P

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PHYSICS							
Ph 300	+	Thesis Research	59	Chatzioannou, K	A	A	P
POLITICAL SCIENCE							
PS 020	3-0-6	Political-Economic Development and Material Culture <i>maximum enrollment: 15 students</i>	01	Ordeshook, P	MR 14:30 - 15:55	B125 BAX	G
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 02	Ordeshook, P Alvarez, R	A A	A A	
PS 123	3-0-6	Regulation and Politics <i>designated as Writing Intensive course // maximum enrollment: 35 students</i>	01	Kiewiet, D	W 19:30 - 21:30	B125 BAX	G
Ec/PS 124	3-0-6	Identification Problems in the Social Sciences	01	Sherman, R	TR 13:00 - 14:25	228 BAX	
PS 125	3-0-6	Analyzing Political Conflict and Violence	01	Gibilisco, M	TR 10:30 - 11:55	B133 BAX	
An/PS 127	3-0-6	Corruption <i>maximum enrollment: 10 students // Designated as Writing Intensive Course // class full, see instructor for waitlist</i>	01	Ensminger, J	MW 14:30 - 15:55	128 BAX	G
PS 132	3-0-6	Formal Theories in Political Science	01	Hirsch, A	MW 10:30 - 11:55	125 BAX	

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POLITICAL SCIENCE							
PS 141A	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	T 14:30 - 16:30	B125 BAX	G
PSYCHOLOGY							
Psy101	3-0-6	Selected Topics in Psychology: The Life Cycle of Behaviors <i>maximum enrollment: 20 students</i>	01	Kim, N	TR 13:00 - 14:25	121 BCK	
CNS/Psy/Bi 102A	3-0-6	Brains, Minds, and Society <i>class cancelled</i>	01	Staff	A	A	
Psy120	3-0-6	Metascience: The Science of Being an Impactful Scientist <i>maximum enrollment: 14 students</i>	01	Mobbs, D	F 10:30 - 13:25	228 BAX	
PL/CNS/NB/Bi/Psy 167	3-0-6	Consciousness <i>open by application only, apply at http://registrar.caltech.edu/PL167 by Nov 16th // maximum enrollment: 20 students</i>	01	Eberhardt, F / Adolphs, R	TR 10:30 - 11:55	130 CNRB	G
Psy283B	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	Rangel, A	F 13:00 - 14:25	B119 BAX	P
SS/Psy/CNS 285	1.5-0-1.5	Topics in Social, Cognitive, and Decision Sciences	01	Pomatto, L	M 17:00 - 17:55	125 BAX	P
SCIENTIFIC AND ENGINEERING COMMUNICATION							
SEC010	3-0-0	Technical Seminar Presentations <i>class full, see waitlist form at http://registrar.caltech.edu/SEC10WaitlistForm //maximum enrollment: 18 students per section</i>	01	Javier, R	MWF 09:00 - 09:55	100 PWL/BTH	G
			02	Javier, R	MWF 10:00 - 10:55	100 PWL/BTH	G
			03	Dabiri, M	MWF 11:00 - 11:55	100 PWL/BTH	G

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SCIENTIFIC AND ENGINEERING COMMUNICATION							
SEC011	1-0-2	Written Academic Communication in Engineering and Applied Science <i>Limited to seniors in E&AS only // maximum enrollment: 20 students // go to http://registrar.caltech.edu/SEC11-12-13WaitlistForm to be added to waitlist when class is full</i>	01	Meyer, V	F 10:00 - 10:55	142 KCK	G
SEC012	1-0-2	Written Professional Communication in Engineering and Applied Science <i>Class Full // Limited to seniors in E&AS only // maximum enrollment: 20 students // go to http://registrar.caltech.edu/SEC11-12-13WaitlistForm to be added to waitlist when class is full</i>	01	Bickford, C	W 13:00 - 13:55	104 WAT	G
SEC013	1-0-2	Written Communication about Engineering and Applied Sciences to Non-Specialists <i>Limited to seniors in E&AS only // maximum enrollment: 20 students // go to http://registrar.caltech.edu/SEC11-12-13WaitlistForm to be added to waitlist when class is full</i>	01	Burkett, E	W 11:00 - 11:55	104 WAT	G
SEC201	1-0-0	Advancing Inclusion in College Teaching <i>maximum enrollment: 12 students // meets in the CTLO Workshop Space</i>	01	Imamura, J	W 15:00 - 15:55	360 CSS	P
SOCIAL SCIENCE							
SS 201B	3-0-6	Analytical Foundations of Social Science <i>Open to Social Science graduate students only</i>	01	Saito, K	TR 10:30 - 11:55	B125 BAX	G
SS 202B	3-0-6	Political Theory <i>Open to Social Science graduate students only</i>	01	Katz, J	F 13:00 - 15:55	B125 BAX	G
SS 205B	3-0-6	Foundations of Economics <i>Open to Social Science graduate students only.</i>	01	Pomatto, L	MW 14:30 - 15:55	127 BAX	G

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SOCIAL SCIENCE							
SS 210B	3-0-6	Foundations of Political Economy	01	Gibilisco, M	MW 13:00 - 14:25	B125 BAX	G
SS 212B	3-0-6	Experimental Economics	01	Sprenger, C	TR 10:30 - 11:55	228 BAX	
SS 222B	3-0-6	Econometrics	01	Xin, Y	TR 13:00 - 14:25	B125 BAX	G
SS 229A	3-0-6	Theoretical and Quantitative Dimensions of Historical Development	01	Rosenthal, J	MWF 11:00 - 11:55	128 BAX	G
SS 231B	3-0-6	American and Comparative Politics	01	Alvarez, R	T 13:00 - 15:55	237 BAX	G
SS 282B	1.5-0-1.5	Graduate Proseminar in Social Science	01	Nielsen, K	M 14:30 - 15:55	125 BAX	P
SS/Psy/CNS 285	1.5-0-1.5	Topics in Social, Cognitive, and Decision Sciences	01	Pomatto, L	M 17:00 - 17:55	125 BAX	P
SS 300	+	Research in Social Science	01	Adolphs, R	A	A	P
			02	Palfrey, T	A	A	P
			04	O'Doherty, J	A	A	P
			06	Katz, J	A	A	P
			07	Kiewiet, D	A	A	P
			08	Echenique, F	A	A	P
			09	Tamuz, O	A	A	P
			10	Plott, C	A	A	P
			11	Alvarez, R	A	A	P
			12	Camerer, C	A	A	P
			13	Agranov, M	A	A	P
			14	Cvitanic, J	A	A	P
			15	Snowberg, E	A	A	P
			16	Rosenthal, J	A	A	P
			17	Hirsch, A	A	A	P
			18	Shum, M	A	A	P
			19	Rangel, A	A	A	P

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SOCIAL SCIENCE							
SS 300	+	Research in Social Science	21	Perona, P	A	A	P
			22	Sprenger, C	A	A	P
			23	Hoffman, P	A	A	P
			24	O'Doherty, J	A	A	P
			27	Mobbs, D	A	A	P
			28	Sherman, R	A	A	P
			29	Pomatto, L	A	A	P
			30	Nielsen, K	A	A	P
STUDENT ACTIVITIES							
SA 016B	0-3-0	Cooking Basics <i>maximum enrollment: 20 students</i>	01	Mannion, T	R 19:00 - 21:55	Library AVE	P
SA 042	0-2-2	Computer Science Education in K-14 Settings Practicum <i>enrollment by application instructor permission required to add</i>	01	Ralph, C / Wierman, A	F 10:00 - 10:55	106 ANB	P
SA 080B	1-1-1	Health Advocates <i>maximum enrollment: 24 students per section</i>	01	Stapf, M	W 19:00 - 21:55	132 YHC	P
			02	Stapf, M	R 19:00 - 21:55	132 YHC	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
UCL100	36-0-0	University College London Scholars Program	01	Staff	A	A	P
EDN100	36-0-0	University of Edinburgh Scholars Program	01	Staff	A	A	P
VISUAL CULTURE							

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VISUAL CULTURE							
VC 056	3-0-3	Worldbuilding for the Multiverse <i>maximum enrollment: 15 students</i>	01	Berrigan, C	TR 14:30 - 15:55	115 DAB	
VC 072	3-0-6	Data, Algorithms and Society <i>taught concurrently with CS/IDS 162 // maximum enrollment: 15 students between VC 72 and CS/IDS 162 // instructor permission required to add // apply at https://forms.gle/HxCECWgsUaujvT5d8</i>	01	Mushkin, H / Ralph, C	TR 14:30 - 15:55	106 ANB	
VC/E 081	1-0-0	Careers in STEAM	01	Mushkin, H	R 12:00 - 12:55	107 DWN	P
VC 090	+	Reading in Visual Culture <i>instructor permission required to enroll</i>	01 02	Jurca, C Jacobson, B	A A	A A	P P
WRITING							
Wr 004	1-0-2	Principles and Practices of Academic Writing <i>instructor permission required before enrolling</i>	01	Hall, S	T 12:00 - 12:55	127 BAX	P
Wr 050	+	Tutorial in Writing <i>individually scheduled class times</i>	01	Hall, S	A	A	P