

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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<b>AEROSPACE</b>							
Ae 100	+	Research in Aerospace	01	Culick, F	A	A	P
			02	Ravichandran, G	A	A	P
			03	Rosakis, A	A	A	P
			04	Meiron, D	A	A	P
			05	Dimotakis, P	A	A	P
			06	McKeon, B	A	A	P
			07	Blanquart, G	A	A	P
			08	Daraio, C	A	A	P
			09	Shepherd, J	A	A	P
			10	Gharib, M	A	A	P
			11	Chung, S	A	A	P
			12	Pellegrino, S	A	A	P
			13	Bae, H	A	A	P
			14	Austin, J	A	A	P
Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	133 GUG	P
Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Pellegrino, S	TR 09:00 - 10:25	133 GUG	G
Ae/APh 104C	0-6-3	Experimental Methods	01	Gharib, M	A	A	G
Ae 105C	0-8-1	Space Engineering	01	Watkins, M	TR 14:30 - 15:55	232 GUG	G
Ae/ME 120	3-0-6	Combustion Fundamentals	01	Blanquart, G	MWF 09:00 - 09:55	135 GTL	
Ae 121C	3-0-6	Space Propulsion	01	Polk, J	TR 13:00 - 14:25	232 GUG	
Ae 150C	1-0-0	Aerospace Engineering Seminar	01	Austin, J	M 13:00 - 13:55	133 GUG	P
Ae 200	+	Advanced Research in Aerospace	01	Bellan, P	A	A	P
			02	Schneider, T	A	A	P

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

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<b>AEROSPACE</b>							
Ae 200	+	Advanced Research in Aerospace	36	Dabiri, J	A	A	P
			37	Bae, H	A	A	P
			38	Kornfield, J	A	A	P
Ae 201A	3-0-6	Advanced Fluid Mechanics <i>class will meet in 232 GUG on 4/6/23</i>	01	Pullin, D	TR 13:00 - 14:25	133 GUG	P
Ae 208C	1-0-0	GALCIT Colloquium	01	Dabiri, J	F 15:00 - 15:55	133 GUG	P
Ae 234A	3-0-6	Hypersonic Aerodynamics <i>class cancelled</i>	01	Austin, J	A	A	
Ae 240	+	Special Topics in Fluid Mechanics <i>Section 1: Educational Exchange (Pass-Fail only)</i>	01	Austin, J	A	A	P
ME/Ge/Ae 266B	3-0-6	Fracture and Frictional Faulting	01	Lapusta, N	MW 14:30 - 15:55	115 GTL	
<b>ANTHROPOLOGY</b>							
An 097	+	Undergraduate Research	01	Staff	A	A	P
<b>APPLIED &amp; COMPUTATIONAL MATH</b>							
ACM011	2-2-2	Introduction to Computational Science and Engineering	01	Baptista, R	M 13:00 - 14:55	104 ANB	G
ACM080C	+	Undergraduate Thesis	01	Anandkumar, A	A	A	P
			02	Bruno, O	A	A	P
ACM081C	+	Undergraduate Projects in Applied and Computational Mathematics	01	Chandrasekaran, V	A	A	P
			02	Zuev, K	A	A	P
			03	Leong, O	A	A	P
			04	Wierman, A	A	A	P
			05	Hoffmann, F	A	A	P

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<b>APPLIED &amp; COMPUTATIONAL MATH</b>							
ACM095B	4-0-8	Introductory Methods of Applied Mathematics for the Physical Sciences	01	Meiron, D	MWF 11:00 - 12:15	Lecture Hall BAX	
ACM100B	4-0-8	Introductory Methods of Applied Mathematics for the Physical Sciences	01	Meiron, D	MWF 11:00 - 12:15	Lecture Hall BAX	
Ma/ACM/IDS 140B	3-0-6	Probability	01	Tamuz, O	MWF 13:00 - 13:55	310 LINDE	
IDS/ACM/CS 157	3-2-4	Statistical Inference	01	Zuev, K	TR 09:00 - 10:25	Lecture Hall BAX	
ACM/EE/IDS 170	3-0-9	Mathematics of Signal Processing	01	Hassibi, B	TR 10:30 - 11:55	213 ANB	G
ACM/IDS 180A	3-0-9	Multiscale Modeling	01	Stuart, A	TR 09:00 - 10:25	213 ANB	G
ACM190	+	Reading and Independent Study	01	Bruno, O	A	A	P
ACM206	3-0-6	Topics in Computational Mathematics: Monte Carlo methods for scientific computing	01	Webber, R / Tropp, J	TR 13:00 - 14:25	104 ANB	
ACM270	3-0-6	Advanced Topics in Applied and Computational Math: Mathematics of Data Science Graph-based learning for image processing	01	Hoffmann, F / Budd, J	TR 14:30 - 15:55	213 ANB	
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	Stuart, A	A	A	P
			08	Owhadi, H	A	A	P
			09	Hassibi, B	A	A	P
			10	Schroeder, P	A	A	P
			11	Beck, J	A	A	P

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<b>APPLIED MECHANICS</b>							
Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Pellegrino, S	TR 09:00 - 10:25	133 GUG	G
AM/CE/ME 150C	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	135 GTL	P
ME/MS/AM 221	3-0-6	Effective properties of heterogenous and meta-materials	01	Bhattacharya, K	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
<b>APPLIED PHYSICS</b>							
Aph/EE 024	3-0-6	Introductory Optics and Photonics Laboratory <i>class cancelled</i>	01	Matsko, A	A	A	
Aph078C	0-9-0	Senior Thesis, Experimental	01	Atwater, H	A	A	
			02	Painter, O	A	A	
			03	Yung, Y	A	A	
			04	Scherer, A	A	A	
			05	Vahala, K	A	A	
			06	Bellan, P	A	A	
			07	Troian, S	A	A	
			08	Phillips, R	A	A	
			09	Faraon, A	A	A	
			10	Schwab, K	A	A	
			11	Endres, M	A	A	
			12	Hajimiri, S	A	A	

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<b>APPLIED PHYSICS</b>							
APh078C	0-9-0	Senior Thesis, Experimental	13	Fultz, B	A	A	
APh079C	0-9-0	Senior Thesis, Theoretical	01	Phillips, R	A	A	G
			02	Troian, S	A	A	G
			03	Kimble, H	A	A	G
APh100	+	Advanced Work in Applied Physics	01	Phillips, R	A	A	P
			02	Atwater, H	A	A	P
			03	Faraon, A	A	A	P
			04	Schwab, K	A	A	P
			05	Troian, S	A	A	P
			06	Faraon, A	A	A	P
			07	Bellan, P	A	A	P
			08	Scherer, A	A	A	P
			09	Minnich, A	A	A	P
			10	Painter, O	A	A	P
			11	Quartz, S	A	A	P
			12	Kimble, H	A	A	P
			13	Polk, J	A	A	P
			14	Hajimiri, S	A	A	P
			15	Hajimiri, S	A	A	P
			16	Falson, J	A	A	P
			17	Falson, J	A	A	P
			18	Marandi, A	A	A	P
Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	133 GUG	P
Ae/APh 104C	0-6-3	Experimental Methods	01	Gharib, M	A	A	G
APh/MS 105C	3-0-6	States of Matter	01	Falson, J	TR 09:00 - 10:25	104 WAT	
APh/EE 109	0-6-3	Introduction to the Micro/Nanofabrication Lab	01	Ghaffari, A	OM,W 16:00 - 16:55	104 WAT	

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<b>APPLIED PHYSICS</b>							
APh/Ph 112B	3-0-6	Noise and Stochastic Resonance	01	Troian, S	TR 14:30 - 15:55	111 KCK	
APh114C	3-0-6	Solid-State Physics	01	Schwab, K	MWF 09:00 - 09:55	104 WAT	
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement <i>class cancelled</i>	01	Roukes, M	A	A	P
APh119	1-4-1	Nanofabrication Techniques	01	Scherer, A	R 13:00 - 13:55	B280 MRE	
APh/Ph 138A	3-0-6	Quantum Hardware and Techniques	01	Faraon, A / Endres, M / Nad Perge, S / McCuller, L	TR 14:30 - 15:55	142 KCK	P
APh/MS 141	3-0-6	Introduction to Computational Methods for Science and Engineering	01	Bernardi, M	MWF 13:00 - 13:55	104 WAT	
APh156C	3-0-6	Plasma Physics	01	Bellan, P	MW 14:30 - 15:55	104 WAT	
APh/EE 183	3-0-6	Physics of Semiconductors and Semiconductor Devices	01	Nad Perge, S	TR 13:00 - 14:25	104 WAT	
APh/EE 190B	3-0-6	Quantum Electronics	01	Vahala, K	TR 13:00 - 14:25	142 KCK	
APh200	+	Applied Physics Research	01	Desbrun, M	A	A	P
			02	Bellan, P	A	A	P
			03	Atwater, H	A	A	P
			04	Troian, S	A	A	P
			05	Johnson, W	A	A	P
			06	Chen, Y	A	A	P
			07	Yariv, A	A	A	P
			08	Vahala, K	A	A	P
			09	Lewis, N	A	A	P
			10	Fultz, B	A	A	P
			11	Schwab, K	A	A	P



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<b>APPLIED PHYSICS</b>							
APh200	+	Applied Physics Research	12	Schneider, T	A	A	P
			13	Refael, G	A	A	P
			14	Kimble, H	A	A	P
			15	Goddard, W	A	A	P
			16	Faraon, A	A	A	P
			17	Minnich, A	A	A	P
			18	Yang, C	A	A	P
			19	Motrunich, O	A	A	P
			20	Hsieh, D	A	A	P
			21	Preskill, J	A	A	P
			22	Painter, O	A	A	P
			23	Bernardi, M	A	A	P
			24	Roukes, M	A	A	P
			25	Alicea, J	A	A	P
			26	Gharib, M	A	A	P
			27	Nad Perge, S	A	A	P
			28	Rosenbaum, T	A	A	P
			29	Hutzler, N	A	A	P
			31	Elowitz, M	A	A	P
			32	Yeh, N	A	A	P
			33	Falson, J	A	A	P
			34	Bock, J	A	A	P
			35	Marandi, A	A	A	P
			36	Endres, M	A	A	P
			37	Cushing, S	A	A	P
38	Daraio, C	A	A	P			
39	Scherer, A	A	A	P			
40	Phillips, R	A	A	P			
41	Mirhosseini, M	A	A	P			
42	Adhikari, R	A	A	P			
43	Spiropulu, M	A	A	P			
44	Murray, R	A	A	P			
45	Chan, G	A	A	P			

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<b>APPLIED PHYSICS</b>							
Ph/APh 223B	3-0-6	Advanced Condensed-Matter Physics	01	Alicea, J	MW 09:00 - 10:25	103 DWN	
APh300	+	Thesis Research in Applied Physics	01	Yariv, A	A	A	P
			02	Troian, S	A	A	P
			03	Vahala, K	A	A	P
			04	Schwab, K	A	A	P
			05	Bernardi, M	A	A	P
			06	Flagan, R	A	A	P
			07	Faraon, A	A	A	P
			08	Hsieh, D	A	A	P
			09	Fultz, B	A	A	P
			10	Atwater, H	A	A	P
			11	Desbrun, M	A	A	P
			12	Daraio, C	A	A	P
			13	Refael, G	A	A	P
			14	Nad Perge, S	A	A	P
			15	Rosenbaum, T	A	A	P
			16	Vahala, K	A	A	P
			17	Hutzler, N	A	A	P
			18	Falson, J	A	A	P
			19	Marandi, A	A	A	P
			20	Minnich, A	A	A	P
21	Roukes, M	A	A	P			
22	Chan, G	A	A	P			
23	Schneider, T	A	A	P			
26	Scherer, A	A	A	P			
27	Chen, Y	A	A	P			
31	Phillips, R	A	A	P			
33	Bellan, P	A	A	P			
36	Painter, O	A	A	P			
38	Zmuidzinas, J	A	A	P			
39	Endres, M	A	A	P			

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<b>ASTROPHYSICS</b>										
Ay 001	3-3-3	The Evolving Universe <i>not open to juniors or seniors</i>	01	Mawet, D	MWF 14:00 - 14:55	Hameetman Aud CHL				
FS/Ay 003	2-0-4	First-Year Seminar: Automating Discovering the Universe <i>maximum enrollment: 12 students</i>	01	Kulkarni, S	OM,A	A	P			
Ge/Ay 011C	3-0-6	Introduction to Earth and Planetary Sciences: Planetary Sciences <i>Taught concurrently with Ge 103</i>	01	Ehlmann, B	TR 13:00 - 14:25	162 SMD				
Ay 043	+	Reading in Astronomy and Astrophysics	01	Hillenbrand, L	A	A	P			
Ay 078C	+	Senior Thesis	01	Ravi, V	A	A	P			
			02	Hillenbrand, L	A	A	P			
			03	Blake, G	A	A	P			
			04	Steidel, C	A	A	P			
			05	Cohen, J	A	A	P			
			06	Scoville, N	A	A	P			
			08	Martin, C	A	A	P			
			09	Prince, T	A	A	P			
			11	Harrison, F	A	A	P			
			12	Hallinan, G	A	A	P			
			13	Phinney, E	A	A	P			
			14	Hopkins, P	A	A	P			
			15	Knutson, H	A	A	P			
			16	Mawet, D	A	A	P			
			17	Kirby, E	A	A	P			
			18	Kasliwal, M	A	A	P			
			19	Djorgovski, S	A	A	P			
			Ay 105	1-5-3	Optical Astronomy Instrumentation Lab	01	Hallinan, G	TR 13:00 - 15:55	211 CHL	
			Ay/Ge 107	1-1-7	Introduction to Astronomical Observation <i>Field Trip: May 5-7 // maximum enrollment; 12 students</i>	01	Hillenbrand, L / de	R 14:30 - 15:55	251 ARM	
Kleer, K	R 19:00 - 20:55	CHL								

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Ay 111C	1-0-0	Introduction to Current Astrophysics Research	01	Howard, A	F 11:00 - 11:55	219 CHL	P
Ay 119	3-0-3	Astroinformatics <i>class cancelled</i>	01	Lombeyda, S / Djorgovski, S / Graham, M / Mahabal, A	OM,A	A	
Ay 124	3-0-6	Structure and Evolution of Galaxies	01	Martin, C	TR 14:30 - 15:55	219 CHL	
Ay 125	3-0-6	High-Energy Astrophysics	01	Fuller, J	TR 10:30 - 11:55	219 CHL	
Ay 141C	1-0-2	Research Conference in Astronomy	01	Hallinan, G	F 16:00 - 16:55	370 CHL	P
Ay 142	+	Research in Astronomy and Astrophysics	01	Ravi, V	A	A	P
			02	Blake, G	A	A	P
			03	Stevenson, D	A	A	P
			04	Brown, M	A	A	P
			05	Harrison, F	A	A	P
			06	Djorgovski, S	A	A	P
			07	Readhead, A	A	A	P
			08	Golwala, S	A	A	P
			09	Hillenbrand, L	A	A	P
			11	Kulkarni, S	A	A	P
			12	Martin, C	A	A	P
			13	Zmuidzinas, J	A	A	P
			14	Hallinan, G	A	A	P
			15	Prince, T	A	A	P
			16	Mawet, D	A	A	P
			19	Sargent, A	A	A	P
			20	Hopkins, P	A	A	P
			21	Dore, O	A	A	P
			22	Scoville, N	A	A	P
			23	Steidel, C	A	A	P
			24	Phinney, E	A	A	P

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<b>ASTROPHYSICS</b>							
Ay 142	+	Research in Astronomy and Astrophysics	25	Rogers, L	A	A	P
			26	Soifer, B	A	A	P
			27	Knutson, H	A	A	P
			28	Kasliwal, M	A	A	P
			29	Kirby, E	A	A	P
			31	Batygin, K	A	A	P
			32	Bock, J	A	A	P
			33	Fuller, J	A	A	P
			34	Howard, A	A	A	P
			35	Chang, T	A	A	P
			Ay 143	+	Reading and Independent Study	01	Steidel, C
03	Kulkarni, S	A				A	P
04	Hopkins, P	A				A	P
05	Batygin, K	A				A	P
06	Brown, M	A				A	P
07	Blake, G	A				A	P
08	Knutson, H	A				A	P
09	Djorgovski, S / Graham, M / Mahabal, A / Lombeyda, S	A				A	P
Ay 144	+	Independent Writing in Astronomy				01	Batygin, K
			02	Blake, G	A	A	P
			03	Bock, J	A	A	P
			04	Brown, M	A	A	P
			05	Chang, T	A	A	P
			06	Djorgovski, S	A	A	P
			07	Dore, O	A	A	P
			08	Fuller, J	A	A	P
			09	Golwala, S	A	A	P
			10	Hallinan, G	A	A	P
			11	Harrison, F	A	A	P
			12	Hillenbrand, L	A	A	P
			13	Hopkins, P	A	A	P

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<b>ASTROPHYSICS</b>							
Ay 144	+	Independent Writing in Astronomy	14	Howard, A	A	A	P
			15	Kasliwal, M	A	A	P
			16	Kirby, E	A	A	P
			17	Knutson, H	A	A	P
			18	Kulkarni, S	A	A	P
			19	Martin, C	A	A	P
			20	Mawet, D	A	A	P
			21	Phinney, E	A	A	P
			22	Prince, T	A	A	P
			23	Ravi, V	A	A	P
			24	Readhead, A	A	A	P
			25	Rogers, L	A	A	P
			26	Sargent, A	A	A	P
			27	Scoville, N	A	A	P
			28	Soifer, B	A	A	P
			29	Steidel, C	A	A	P
			30	Stevenson, D	A	A	P
			31	Zmuidzinas, J	A	A	P
Ay/Ge 198	2-0-4	Special Topics in the Planetary Sciences	01	Mawet, D	M 10:00 - 11:55	219 CHL	
<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
Bi/BMB 189	2-0-4	The Cell Cycle and Genomic Stability	01	Dunphy, W	R 14:30 - 16:25	152 BRN	
BMB/Ch 202C	1-0-0	Biochemistry Seminar Course	01	Clemons, W	R 12:00 - 12:55	320 BRN	P
Bi/BE/BMB 222	2-0-4	The Structure of the Cytosol	01	Kennedy, M	M 16:00 - 17:55	B101 BBB	
BMB/Ch 230	2-4-6	Macromolecular Structure Determination with Modern X-ray Crystallography Methods	01	Hoelz, A	W 14:00 - 15:55	101 SCH	G

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<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
Bi/BMB 251C	1-0-0	Current Research in Cellular and Molecular Biology	01	Sternberg, P / Hay, B	W 12:00 - 12:55	119 KRK	P
BMB299	+	Graduate Research	01	Mayo, S	A	A	P
			02	Deshaies, R	A	A	P
			03	Fraser, S	A	A	P
			04	Bjorkman, P	A	A	P
			05	Arnold, F	A	A	P
			06	Rees, D	A	A	P
			08	Campbell, J	A	A	P
			09	Goddard, W	A	A	P
			10	Kennedy, M	A	A	P
			11	Hsieh-Wilson, L	A	A	P
			12	Tirrell, D	A	A	P
			13	Parker, C	A	A	P
			14	Greer, J	A	A	P
			16	Chan, D	A	A	P
			17	Anderson, D	A	A	P
			18	Dougherty, D	A	A	P
			19	Shan, S	A	A	P
			21	Elowitz, M	A	A	P
			22	Ismagilov, R	A	A	P
			24	Meyerowitz, E	A	A	P
			25	Hay, B	A	A	P
			26	Wold, B	A	A	P
			27	Davis, M	A	A	P
			28	Phillips, R	A	A	P
			30	Clemons, W	A	A	P
			31	Leadbetter, J	A	A	P
			32	Murray, R	A	A	P
			33	Mazmanian, S	A	A	P
			35	Wang, Z	A	A	P
			36	Gharib, M	A	A	P
			37	Rothenberg, E	A	A	P

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<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
BMB299	+	Graduate Research	38	Lester, H	A	A	P
			39	Pierce, N	A	A	P
			40	Sternberg, P	A	A	P
			41	Roukes, M	A	A	P
			42	Gray, H	A	A	P
			43	Shapiro, M	A	A	P
			44	Newman, D	A	A	P
			45	Cai, L	A	A	P
			46	Varshavsky, A	A	A	P
			47	Hoelz, A	A	A	P
			48	Goentoro, L	A	A	P
			49	Guttman, M	A	A	P
			50	Meister, M	A	A	P
			51	Zinn, K	A	A	P
			52	Miller, T	A	A	P
			53	Dunphy, W	A	A	P
			54	Wagenaar, D	A	A	P
			55	Voorhees, R	A	A	P
			56	Pachter, L	A	A	P
			57	Parker, J	A	A	P
			58	Semlow, D	A	A	P
59	Thomson, M	A	A	P			
60	Chong, S	A	A	P			
61	Nelson, H	A	A	P			
<b>BIOENGINEERING</b>							
Bi/BE 024	3-0-3	Scientific Communication for Biological Scientists and Engineers <i>maximum enrollment: 20 students // class full, see instructor for waitlist</i>	01	Hoy, J	MW 10:30 - 11:55	152 BRN	
BE 098	+	Undergraduate Research in Bioengineering <i>If your research adviser does not appear below, please contact the Office of the Registrar.</i>	01	Arnold, F	A	A	P
			02	Mazmanian, S	A	A	P
			03	Burdick, J	A	A	P



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<b>BIOENGINEERING</b>							
BE 098	+	Undergraduate Research in Bioengineering <i>If your research adviser does not appear below, please contact the Office of the Registrar.</i>	04	Sternberg, P	A	A	P
			05	Kennedy, M	A	A	P
			06	Gradinaru, V	A	A	P
			07	Gharib, M	A	A	P
			08	Hajimiri, S	A	A	P
			09	Aravin, A	A	A	P
			10	Lester, H	A	A	P
			11	Shimojo, S	A	A	P
			12	Pierce, N	A	A	P
			13	Shapiro, M	A	A	P
			14	Shan, S	A	A	P
			15	Qian, L	A	A	P
			16	Roukes, M	A	A	P
			17	Scherer, A	A	A	P
			18	Tai, Y	A	A	P
			19	Tirrell, D	A	A	P
			20	Yang, C	A	A	P
			21	Mayo, S	A	A	P
			22	Chou, T	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			25	Wang, K	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfree, E	A	A	P
			28	Guttman, M	A	A	P
			29	Oka, Y	A	A	P
			30	Kornfield, J	A	A	P
			31	Baltimore, D	A	A	P
			32	Goentoro, L	A	A	P
			33	Hay, B	A	A	P
			34	Beauchamp, J	A	A	P
			35	Bjorkman, P	A	A	P
			36	Adolphs, R	A	A	P

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<b>BIOENGINEERING</b>							
BE 098	+	Undergraduate Research in Bioengineering <i>If your research adviser does not appear below, please contact the Office of the Registrar.</i>	37	Ismagilov, R	A	A	P
			38	Dickinson, M	A	A	P
			39	Pachter, L	A	A	P
			40	Thomson, M	A	A	P
			41	Hong, E	A	A	P
			42	Bronner Hansen, M	A	A	P
			43	Daraio, C	A	A	P
			44	Prober, D	A	A	P
			45	Van Valen, D	A	A	P
BE 099C	+	Senior Thesis in Bioengineering	01	Elowitz, M	A	A	G
			02	Murray, R	A	A	G
			03	Gradinaru, V	A	A	G
			04	Winfree, E	A	A	G
			05	Shapiro, M	A	A	G
			06	Daraio, C	A	A	G
			07	Prober, D	A	A	G
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement <i>class cancelled</i>	01	Roukes, M	A	A	P
BE 150	3-0-6	Biological Circuit Design <i>taught concurrently with Bi 250b</i>	01	Bois, J / Elowitz, M	MWF 11:00 - 11:55	100 CNRB	
BE 153	3-0-6	Case Studies in Systems Physiology	01	Petrasek, D	TR 14:30 - 15:55	200 BRD	
BE/EE/MedE 189A	3-6-3	Design and Construction of Biodevices <i>maximum enrollment: 20 students // contact instructor if class is full // Enrollment is limited based on laboratory capacity</i>	01	Yang, C	TR 14:30 - 15:55	B127 KRK	
BE/EE/MedE 189B	0-9-0	Design and Construction of Biodevices	01	Yang, C	TR 14:30 - 15:55	B127 KRK	
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation <i>class cancelled</i>	01	Winfree, E	A	A	

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<b>BIOENGINEERING</b>							
BE/CS 196B	2-8-2	Design and Construction of Programmable Molecular Systems <i>class cancelled</i>	01	Staff	A	A	
BE 200	+	Research in Bioengineering	01	Arnold, F	A	A	P
			02	Phillips, R	A	A	P
			03	Burdick, J	A	A	P
			04	Gradinaru, V	A	A	P
			05	Dervan, P	A	A	P
			06	Goentoro, L	A	A	P
			07	Gharib, M	A	A	P
			08	Hajimiri, S	A	A	P
			09	Heath, J	A	A	P
			10	Lester, H	A	A	P
			11	Ismagilov, R	A	A	P
			12	Pierce, N	A	A	P
			13	Meister, M	A	A	P
			14	Guttman, M	A	A	P
			15	Troian, S	A	A	P
			16	Roukes, M	A	A	P
			17	Scherer, A	A	A	P
			18	Tai, Y	A	A	P
			19	Tirrell, D	A	A	P
			20	Yang, C	A	A	P
			21	Rothmund, P	A	A	P
			22	Greer, J	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			25	Goddard, W	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfree, E	A	A	P
			28	Shapiro, M	A	A	P
			29	Cai, L	A	A	P
			30	Sternberg, P	A	A	P

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<b>BIOENGINEERING</b>							
BE 200	+	Research in Bioengineering	31	Kornfield, J	A	A	P
			32	Andersen, R	A	A	P
			33	Qian, L	A	A	P
			34	Hong, E	A	A	P
			35	Mayo, S	A	A	P
			36	Dickinson, M	A	A	P
			37	Pachter, L	A	A	P
			38	Mazmanian, S	A	A	P
			39	Bjorkman, P	A	A	P
			40	Parker, J	A	A	P
			41	Greer, J	A	A	P
			42	Wang, K	A	A	P
			43	Thomson, M	A	A	P
			44	Meyerowitz, E	A	A	P
			45	Chan, D	A	A	P
			46	Newman, D	A	A	P
			47	Rutishauser, U	A	A	P
			48	Clemons, W	A	A	P
			49	Lois, C	A	A	P
			50	Fejes Toth, K	A	A	P
			51	Rothenberg, E	A	A	P
			52	Wold, B	A	A	P
			53	Van Valen, D	A	A	P
			54	Daraio, C	A	A	P
			55	Demirer, G	A	A	P
			56	Shimojo, S	A	A	P
			57	Wang, L	A	A	P
			58	Hoffmann, F	A	A	P
			59	Orphan, V	A	A	P
			60	Andersen, R	A	A	P
BE/Bi 205	3-0-6	Deep Learning for Biological Data	01	Van Valen, D	TR 13:00 - 14:25	130 CNRB	P

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<b>BIOENGINEERING</b>							
Bi/BE/BMB 222	2-0-4	The Structure of the Cytosol	01	Kennedy, M	M 16:00 - 17:55	B101 BBB	
Bi/CNS/BE/NB 230	3-2-4	Optogenetic and CLARITY Methods in Experimental Neuroscience	01	Gradinaru, V	WR 13:00 - 14:55	340A CNRB	
Bi/BE/CNS/NB 241	1-8-0	Spatial Genomics <i>maximum enrollment: 6 students</i>	01	Cai, L	M 11:00 - 11:55	B115 CNRB	
<b>BIOLOGY</b>							
Bi 001	4-0-5	The Great Ideas of Biology <i>maximum enrollment: 33 students per section // May be taken pass/fail if taken in a first-year student's first year.// section 3 will meet in BRD 200 on May 9th</i>	01	Phillips, R	TR 13:00 - 14:25 M 09:00 - 09:55	100 CNRB 100 CNRB	
			02	Phillips, R	TR 13:00 - 14:25 M 17:00 - 17:55	100 CNRB 100 CNRB	
			03	Phillips, R	TR 13:00 - 14:25 T 12:00 - 12:55	100 CNRB 100 CNRB	
			04	Phillips, R	TR 13:00 - 14:25 T 17:00 - 17:55	100 CNRB 100 CNRB	
			05	Phillips, R	TR 13:00 - 14:25 T 18:00 - 18:55	100 CNRB 100 CNRB	
			06	Phillips, R	TR 13:00 - 14:25 W 09:00 - 09:55	100 CNRB 100 CNRB	
			07	Phillips, R	TR 13:00 - 14:25 W 17:00 - 17:55	100 CNRB 100 CNRB	
Bi 001X	0-6-3	The Great Ideas of Biology: Exploration through Experimentation <i>maximum enrollment: 24 students // May be taken pass/fail if taken in a first-year student's first year.</i>	01	Bois, J	W 13:00 - 15:55 T 13:00 - 15:55	B123 KRK B123 KRK	
Bi 009	3-0-6	Cell Biology	01	Prober, D / Varshavsky, A	TR 09:00 - 10:25 F 09:00 - 09:55	100 - Rock Auditorium BRD 100 - Rock Auditorium BRD	
Bi 010	1-3-2	Introductory Biology Laboratory <i>maximum enrollment: 8 students per section</i>	01	Goentoro, L	W 09:00 - 09:55 M 15:00 - 17:55	152 BRN 347 KRK	

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<b>BIOLOGY</b>							
Bi 010	1-3-2	Introductory Biology Laboratory <i>maximum enrollment: 8 students per section</i>	02	Goentoro, L	W 09:00 - 09:55 T 10:45 - 13:45	152 BRN 347 KRK	
Bi 021	+	Undergraduate Research with Presentation <i>minimum 12 units per term</i>	01	Dunphy, W	A	A	P
			02	Arnold, F	A	A	P
Bi 022	+	Undergraduate Research	01	Shan, S	A	A	P
			02	Bronner Hansen, M	A	A	P
			03	Van Valen, D	A	A	P
			04	Varshavsky, A	A	A	P
			05	Arnold, F	A	A	P
			06	Stathopoulos, A	A	A	P
			07	Zinn, K	A	A	P
			08	Bronner Hansen, M	A	A	P
			09	Mazmanian, S	A	A	P
			11	Newman, D	A	A	P
			12	Chan, D	A	A	P
			13	Leadbetter, J	A	A	P
			14	Tirrell, D	A	A	P
			16	Orphan, V	A	A	P
			17	Fraser, S	A	A	P
			18	Deshaies, R	A	A	P
			19	Kennedy, M	A	A	P
			20	Shimojo, S	A	A	P
			21	Adolphs, R	A	A	P
			22	Lester, H	A	A	P
			23	Prober, D	A	A	P
			24	Gradinaru, V	A	A	P
			25	Allman, J	A	A	P
			26	Wold, B	A	A	P
			27	Peter Lashgari Faghani, I	A	A	P
			28	Meyerowitz, E	A	A	P
			29	Shapiro, M	A	A	P
			30	Hong, E	A	A	P

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<b>BIOLOGY</b>							
Bi 022	+	Undergraduate Research	31	Rees, D	A	A	P
			32	Aravin, A	A	A	P
			33	Bjorkman, P	A	A	P
			34	Ondrus, A	A	A	P
			35	Meister, M	A	A	P
			36	Baltimore, D	A	A	P
			37	Wang, K	A	A	P
			38	Campbell, J	A	A	P
			39	Parker, C	A	A	P
			40	Winfree, E	A	A	P
			41	Hsiao, E	A	A	P
			42	Andersen, R	A	A	P
			43	Hay, B	A	A	P
			45	Goddard, W	A	A	P
			46	Elowitz, M	A	A	P
			47	Anderson, D	A	A	P
			48	Stathopoulos, A	A	A	P
			49	Rothenberg, E	A	A	P
			50	Sternberg, P	A	A	P
			51	Cai, L	A	A	P
			55	Sternberg, P	A	A	P
			56	Phillips, R	A	A	P
			57	Clemons, W	A	A	P
			58	Oka, Y	A	A	P
			59	Dickinson, M	A	A	P
			60	Lois, C	A	A	P
			61	Ondrus, A	A	A	P
			62	Pachter, L	A	A	P
			63	Guttman, M	A	A	P
			64	Glover, D	A	A	P
			65	Parker, J	A	A	P
			66	Dunphy, W	A	A	P
			67	Zernicka-Goetz, M	A	A	P

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Bi 022	+	Undergraduate Research	68	Siapas, A	A	A	P
			69	McFall-Ngai, M	A	A	P
Bi/BE 024	3-0-3	Scientific Communication for Biological Scientists and Engineers <i>maximum enrollment: 20 students // class full, see instructor for waitlist</i>	01	Hoy, J	MW 10:30 - 11:55	152 BRN	
Bi 090C	+	Undergraduate Thesis	01	Kennedy, M / Hong, E	A	A	P
			02	Kennedy, M / Siapas, A	A	A	P
			03	Kennedy, M / Sternberg, P	A	A	P
			05	Kennedy, M / Davis, M	A	A	P
			06	Kennedy, M / Bjorkman, P	A	A	P
			07	Kennedy, M / Aravin, A	A	A	P
			08	Kennedy, M / Doyle, J	A	A	P
			09	Kennedy, M / Newman, D	A	A	P
			10	Kennedy, M / Baltimore, D	A	A	P
			11	Kennedy, M / Rothenberg, E	A	A	P
			12	Wold, B / Kennedy, M	A	A	P
			13	Kennedy, M / Gradinaru, V	A	A	P
			14	Kennedy, M / Newman, D	A	A	P
			15	Kennedy, M / Hsieh-Wilson, L	A	A	P
			16	Lester, H / Kennedy, M	A	A	P
			CNS/Psy/Bi 102B	3-0-6	Brains, Minds, and Society <i>maximum enrollment: 20 students</i>	01	Camerer, C
Ch/Bi 111	4-0-8	Biochemistry of Gene Expression	01	Parker, C / Semlow, D	TR 11:00 - 11:55	320 BRN	
					W 14:00 - 15:55	320 BRN	



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<b>BIOLOGY</b>							
NB/Bi/CNS 150	4-0-6	Introduction to Neuroscience	01	Adolphs, R / Lester, H	R 14:00 - 14:55 MWF 10:00 - 10:55	101 KRK 130 CNRB	G
			02	Lester, H / Adolphs, R	MWF 10:00 - 10:55 R 11:00 - 11:55	130 CNRB 152 BRN	G
			03	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 20:00 - 20:55	130 CNRB 101 KRK	G
			04	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 19:00 - 19:55	130 CNRB 101 KRK	G
Bi/CNS 158	3-0-6	Vertebrate Evolution <i>class meets in B136 KRK during rain</i>	01	Allman, J	F 14:00 - 15:55	BBE Tent Caltech Hall	G
Bi 160	3-3-3	Molecular Basis of Animal Evolution <i>First day of class for Bi 160 is Wednesday, April 5, 2023 // Two weeks of fieldwork (weeks 2 and 3) require students to be available 12:00-4:55</i>	01	Parker, J	M 09:00 - 11:55 W 14:00 - 16:55	B101 BBB B126 KRK	
CNS/Bi/Psy/NB 176	4-0-5	Cognition <i>class will meet in KRK 101 on 4/10/23 and 4/19/23</i>	01	Shimojo, S	MW 14:00 - 15:55	130 CNRB	
Bi 180	2-2-5	Plant and Soil Science <i>maximum enrollment: 16 students</i>	01	Meyerowitz, E	MW 14:00 - 14:55 F 14:00 - 15:25	200 BRD B167 BRD	
CNS/Bi/Ph/CS/NB 187	3-0-6	Neural Computation	01	Meister, M / Rutishauser, U	TR 10:30 - 11:55	B180 BBB	
Bi/BMB 189	2-0-4	The Cell Cycle and Genomic Stability	01	Dunphy, W	R 14:30 - 16:25	152 BRN	
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation <i>class cancelled</i>	01	Winfree, E	A	A	
BE/Bi 205	3-0-6	Deep Learning for Biological Data	01	Van Valen, D	TR 13:00 - 14:25	130 CNRB	P
Bi 214	3-0-6	Stem Cells and Hematopoiesis	01	Rothenberg, E	TF 14:00 - 15:55	152 BRN	

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<b>BIOLOGY</b>							
Bi/BE/BMB 222	2-0-4	The Structure of the Cytosol	01	Kennedy, M	M 16:00 - 17:55	B101 BBB	
Bi/CNS/BE/NB 230	3-2-4	Optogenetic and CLARITY Methods in Experimental Neuroscience	01	Gradinaru, V	WR 13:00 - 14:55	340A CNRB	
Bi/BE/CNS/NB 241	1-8-0	Spatial Genomics <i>maximum enrollment: 6 students</i>	01	Cai, L	M 11:00 - 11:55	B115 CNRB	
Bi 250B	3-0-6	Topics in Systems Biology <i>taught concurrently with BE 150</i>	01	Elowitz, M / Bois, J	MWF 11:00 - 11:55	100 CNRB	
NB/Bi/CNS 250C	3-0-6	Topics in Systems Neuroscience	01	Siapas, A	W 14:00 - 16:55	100 CNRB	
Bi/BMB 251C	1-0-0	Current Research in Cellular and Molecular Biology	01	Sternberg, P / Hay, B	W 12:00 - 12:55	119 KRK	P
Psy/Bi/CNS 255	3-0-6	Topics in Emotion and Social Cognition <i>maximum enrollment: 12 students</i>	01	Mobbs, D	W 10:00 - 12:55	128 BAX	
Bi 299	+	Graduate Research	01	Stathopoulos, A	A	A	P
			02	Baltimore, D	A	A	P
			03	Allman, J	A	A	P
			04	Andersen, R	A	A	P
			05	Anderson, D	A	A	P
			06	Mazmanian, S	A	A	P
			07	Clemons, W	A	A	P
			08	Elowitz, M	A	A	P
			09	Thomson, M	A	A	P
			10	Bjorkman, P	A	A	P
			11	Bronner Hansen, M	A	A	P
			12	Campbell, J	A	A	P
			13	Chan, D	A	A	P
			14	Chong, S	A	A	P
			15	Deshaies, R	A	A	P
			16	Dickinson, M	A	A	P
			17	O'Doherty, J	A	A	P

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<b>BIOLOGY</b>							
Bi 299	+	Graduate Research	18	Dunphy, W	A	A	P
			19	Fraser, S	A	A	P
			20	Goddard, W	A	A	P
			21	Hay, B	A	A	P
			22	Kennedy, M	A	A	P
			23	Qian, L	A	A	P
			24	Pierce, N	A	A	P
			25	Burdick, J	A	A	P
			26	Tsao, D	A	A	P
			27	Orphan, V	A	A	P
			28	Mayo, S	A	A	P
			29	Meyerowitz, E	A	A	P
			30	Newman, D	A	A	P
			31	Guo, C	A	A	P
			32	Lois, C	A	A	P
			33	Heath, J	A	A	P
			34	Prober, D	A	A	P
			35	Varshavsky, A	A	A	P
			36	Kirschvink, J	A	A	P
			37	Rothenberg, E	A	A	P
			38	Shapiro, M	A	A	P
			39	Shimojo, S	A	A	P
			40	Lester, H	A	A	P
			41	Sternberg, P	A	A	P
			42	Dougherty, D	A	A	P
			43	Shan, S	A	A	P
			44	Winfree, E	A	A	P
			45	Wold, B	A	A	P
			46	Zinn, K	A	A	P
			47	Burdick, J	A	A	P
			49	Leadbetter, J	A	A	P
			50	Elowitz, M	A	A	P
			51	Adolphs, R	A	A	P

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<b>BIOLOGY</b>							
Bi 299	+	Graduate Research	52	Cai, L	A	A	P
			53	Siapas, A	A	A	P
			54	Gharib, M	A	A	P
			55	Hsieh-Wilson, L	A	A	P
			56	Aravin, A	A	A	P
			57	Fejes Toth, K	A	A	P
			58	Tai, Y	A	A	P
			59	Murray, R	A	A	P
			60	Meister, M	A	A	P
			61	Arnold, F	A	A	P
			62	Gradinaru, V	A	A	P
			63	Scherer, A	A	A	P
			64	Guttman, M	A	A	P
			65	Goentoro, L	A	A	P
			66	Guttman, M	A	A	P
			67	Oka, Y	A	A	P
			68	Hsiao, E	A	A	P
			69	Ismagilov, R	A	A	P
			70	Hong, E	A	A	P
			71	Phillips, R	A	A	P
			72	Roukes, M	A	A	P
			73	Doyle, J	A	A	P
			74	Pachter, L	A	A	P
			75	Parker, J	A	A	P
			76	Voorhees, R	A	A	P
			77	Van Valen, D	A	A	P
			78	Wang, K	A	A	P
			79	de Kleer, K	A	A	P
			80	Zernicka-Goetz, M	A	A	P
			81	Demirer, G	A	A	P
			82	Glover, D	A	A	P
			83	McFall-Ngai, M	A	A	P

**BUSINESS, ECONOMICS, AND MANAGEMENT**

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<b>BUSINESS, ECONOMICS, AND MANAGEMENT</b>							
BEM097	+	Undergraduate Research <i>Instructor permission required prior to registering</i>	01	Sinclair, A	A	A	P
BEM104	3-0-6	Investments <a href="http://schedules.caltech.edu/syllabi/BEM104_SP2223.pdf">http://schedules.caltech.edu/syllabi/BEM104_SP2223.pdf</a>	01	Roll, R	TR 13:00 - 14:25	B125 BAX	
BEM106	3-0-6	Data Analytics in Finance	01	Janas, P	TR 09:00 - 10:25	B125 BAX	G
BEM113	3-0-6	Law and Finance for Start-Ups	01	McAniff, P	TR 10:30 - 11:55	B125 BAX	
BEM114	3-0-6	Hedge Funds <i>maximum enrollment: 40 students</i>	01	Sinclair, A	TR 14:30 - 15:55	Lecture Hall BAX	G
BEM/Ec 120	3-0-6	Introduction to Sports Science	01	Alvarez, R / Eslinger, O	TR 13:00 - 14:25	121 BCK	G
<b>CHEMICAL ENGINEERING</b>							
Ch/ChE 009	1-6-2	Chemical Synthesis and Characterization for Chemical Engineering <i>open by lottery only, see REGIS home page to enter before 8am February 22nd // Ch and ChE students have priority // Maximum enrollment: 10 students in section 1, section 2 cancelled</i>	01	Mendez, J	F 15:00 - 15:55 TR 08:00 - 10:55	B122 GCL 130 CHR	
			02	Mendez, J	A	A	
ChE063B	3-0-6	Chemical Engineering Thermodynamics	01	Ismagilov, R	TR 13:00 - 14:25	106 SPL	
ChE070	1.5-0-1.5	Special Topics in Chemical Engineering: Design Your Life <i>Open to students in all options, by application only. Apply before Feb 20 at <a href="https://tinyurl.com/yckdr7uf">https://tinyurl.com/yckdr7uf</a> // maximum enrollment: 12 students (seniors and juniors graduating Fall 2023 or later)</i>	01	Resnick, A	F 13:00 - 14:25	328 SFL	P

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<b>CHEMICAL ENGINEERING</b>							
ChE080	+	Undergraduate Research	01	Arnold, F	A	A	P
			03	Davis, M	A	A	P
			04	Giapis, K	A	A	P
			05	Lewis, N	A	A	P
			06	Haile, S	A	A	P
			07	Shapiro, M	A	A	P
			08	Brady, J	A	A	P
			09	Atwater, H	A	A	P
			10	Goddard, W	A	A	P
			11	Faber, K	A	A	P
			13	Flagan, R	A	A	P
			14	Gavalas, G	A	A	P
			15	Hoelz, A	A	A	P
			16	Greer, J	A	A	P
			20	Kornfield, J	A	A	P
			21	Agapie, T	A	A	P
			34	Seinfeld, J	A	A	P
			36	Tirrell, D	A	A	P
			37	Ismagilov, R	A	A	P
38	Daraio, C	A	A	P			
39	Hadt, R	A	A	P			
ChE090A	+	Senior Thesis	01	Shapiro, M	A	A	P
ChE090B	0-4-5	Senior Thesis	01	Dickinson, M	A	A	
			02	Giapis, K	A	A	
			03	Seinfeld, J	A	A	
			04	Tirrell, D	A	A	
			06	Flagan, R	A	A	
			08	Davis, M	A	A	
			09	Haile, S	A	A	
			10	Arnold, F	A	A	
			11	Brady, J	A	A	

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<b>CHEMICAL ENGINEERING</b>							
ChE090B	0-4-5	Senior Thesis	12	Kornfield, J	A	A	
			13	Greer, J	A	A	
			14	Lewis, N	A	A	
			16	Mayo, S	A	A	
			17	Fu, G	A	A	
			18	Wang, Z	A	A	
			19	Cai, L	A	A	
			20	Atwater, H	A	A	
			21	Ismagilov, R	A	A	
			22	Cai, L / Arnold, F	A	A	
			ChE090C	+	Senior Thesis	01	Giapis, K
02	Tirrell, D	A				A	P
03	Kornfield, J	A				A	P
04	Cai, L / Arnold, F	A				A	P
05	Lewis, N	A				A	P
06	Flagan, R	A				A	P
07	Mayo, S	A				A	P
08	Ismagilov, R	A				A	P
09	Seinfeld, J	A				A	P
10	Wang, Z	A				A	P
11	Greer, J	A				A	P
12	Atwater, H	A				A	P
13	Clemons, W	A				A	P
Ch/ChE 091	2-0-1	Scientific Writing	01	Weitekamp, D	M 14:00 - 15:55	101 SCH	G
ChE103C	3-0-6	Transport Phenomena	01	Manthiram, K	MW 09:30 - 10:55	106 SPL	
ChE105	3-0-6	Dynamics and Control of Chemical Systems <i>taught concurrently with CDS110</i>	01	Ong, P	MWF 13:00 - 13:55	106 SPL	G
ChE120	1-6-2	Optimal Design of Chemical Systems <i>If unable to register, please contact instructor.</i>	01	Vicic, M	OM,T 12:00 - 12:55	122 SPL	

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<b>CHEMICAL ENGINEERING</b>							
ChE130	1-5-3	Biomolecular Engineering Laboratory <i>Maximum enrollment: 14 students // If unable to register, please contact instructor.</i>	01	Vicic, M	MF 13:00 - 15:55 W 15:00 - 15:55	B126 KRK B136 KRK	
Ch/ChE 140B	3-0-6	Principles and Applications of Semiconductor Photoelectrochemistry <i>class cancelled</i>	01	Staff	A	A	
ChE142	1-0-8	Challenges in Data Science for Chemical Systems	01	Vicic, M	OM,W 12:00 - 12:55	102 SPL	
ChE/Ch 148	3-0-6	Polymer Physics	01	Wang, Z	TR 10:30 - 11:55	106 SPL	
ChE151B	3-0-9	Physical and Chemical Rate Processes <i>class cancelled</i>	01	Brady, J	A	A	G
ChE280	+	Chemical Engineering Research	01	Arnold, F	A	A	P
			02	Murray, R	A	A	P
			03	Atwater, H	A	A	P
			04	Mayo, S	A	A	P
			05	Pierce, N	A	A	P
			06	Troian, S	A	A	P
			07	Brady, J	A	A	P
			08	Stoltz, B	A	A	P
			09	Ismagilov, R	A	A	P
			10	Davis, M	A	A	P
			11	Greer, J	A	A	P
			12	Dougherty, D	A	A	P
			13	Flagan, R	A	A	P
			14	Fraser, S	A	A	P
			15	Fultz, B	A	A	P
			16	Giapis, K	A	A	P
			17	Goddard, W	A	A	P
			18	Fultz, B	A	A	P
			19	Snyder, G	A	A	P
			20	Guttman, M	A	A	P



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<b>CHEMICAL ENGINEERING</b>									
ChE280	+	Chemical Engineering Research	21	Kornfield, J	A	A	P		
			22	Miller, T	A	A	P		
			23	Lewis, N	A	A	P		
			24	Shapiro, M	A	A	P		
			25	Elowitz, M	A	A	P		
			26	Hoffmann, M	A	A	P		
			27	See, K	A	A	P		
			28	Robb, M	A	A	P		
			29	Parker, C	A	A	P		
			30	Wei, L	A	A	P		
			31	Chan, G	A	A	P		
			32	Pachter, L	A	A	P		
			33	Wang, K	A	A	P		
			34	Hadt, R	A	A	P		
			36	Tirrell, D	A	A	P		
			37	Wang, Z	A	A	P		
			40	Seinfeld, J	A	A	P		
			41	Yung, Y	A	A	P		
43	Agapie, T	A	A	P					
44	Gao, W	A	A	P					
45	Manthiram, K	A	A	P					
46	Demirer, G	A	A	P					
<b>CHEMISTRY</b>									
Ch 003A	1-3-2	Fundamental Techniques of Experimental Chemistry <i>open by lottery only, see REGIS home page to enter before 8am February 22nd // Ch and ChE students have priority // Maximum enrollment: 10 students</i>	01	Mendez, J	F 13:00 - 13:55 T 19:00 - 21:55 OM,M 13:00 - 13:55	B122 GCL 130 CHR B122 GCL	P		
			02	Mendez, J	F 13:00 - 13:55 T 13:00 - 15:55 OM,M 13:00 - 13:55	B122 GCL 130 CHR B122 GCL	P		
Ch 003X	1-3-2	Experimental Methods in Solar Energy Conversion <i>Open by lottery only, see REGIS home page to</i>	01	Mendez, J	F 09:00 - 09:55 T 08:00 - 10:55 OM,M 09:00 - 09:55	B122 GCL B157 CRL B122 GCL	P		

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<b>CHEMISTRY</b>							
Ch 003X	1-3-2	Experimental Methods in Solar Energy Conversion <i>Open by lottery only, see REGIS home page to enter before 8am, Feb 22 // Max enroll: 25 students per sec // Students entering 2020 and before must take Ch 3 in their 1st 9 terms in order to be graded p/f. Frosh entering 2021 must take Ch 3 in their 1st 6 terms in order to be graded p/f</i>	02	Mendez, J	F 09:00 - 09:55 T 13:00 - 15:55	B122 GCL B157 CRL	P
			03	Mendez, J	OM,M 09:00 - 09:55 F 09:00 - 09:55	B122 GCL B122 GCL	P
			04	Mendez, J	W 13:00 - 15:55	B157 CRL	
					OM,M 09:00 - 09:55	B122 GCL	
			05	Mendez, J	F 09:00 - 09:55 R 08:00 - 10:55	B122 GCL B157 CRL	P
Ch 004B	1-6-2	Synthesis and Analysis of Organic and Inorganic Compounds <i>class cancelled</i>	01	Mendez, J	A	A	
Ch 006	1-5-3	Physical and Biophysical Chemistry Laboratory <i>Students are expected to attend one lab a week (4 hours sequential) tbd. Ch 21b is required.</i>	01	Okumura, M	A OM,M 15:00 - 15:55	A B133 NYS	
Ch 007	1-6-2	Advanced Experimental Methods in Bioorganic Chemistry <i>Students only need attend two lab sections per week.</i>	01	Hsieh-Wilson, L	WF 13:00 - 15:55 M 13:00 - 13:55 M 14:00 - 16:55	130 CHR 151 CRL 130 CHR	
Ch/ChE 009	1-6-2	Chemical Synthesis and Characterization for Chemical Engineering <i>open by lottery only, see REGIS home page to enter before 8am February 22nd // Ch and ChE students have priority // Maximum enrollment: 10 students in section 1, section 2 cancelled</i>	01	Mendez, J	F 15:00 - 15:55 TR 08:00 - 10:55	B122 GCL 130 CHR	
			02	Mendez, J	A	A	
Ch 010C	1-4-1	Frontiers in Chemistry <i>Must have instructor's permission prior to registering for course // open to freshmen and sophomores only</i>	01	Hoelz, A	R 12:00 - 12:55	147 NYS	P

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<b>CHEMISTRY</b>							
Ch 014	3-0-6	Chemical Equilibrium and Analysis	01	Rees, D	TR 09:00 - 10:25	147 NYS	
Ch 015	0-6-4	Chemical Equilibrium and Analysis Laboratory	01	Virgil, S	MW 09:00 - 11:55	130 CHR	
Ch 021C	3-0-6	Physical Chemistry	01	Okumura, M / Blake, G	TR 10:30 - 11:55	101 SCH	G
Ch 041C	4-0-5	Organic Chemistry <i>section 3 cancelled</i>	01	Reisman, S	MWF 09:00 - 09:55 W 20:00 - 20:55	153 NYS 151 CRL	
			02	Reisman, S	MWF 09:00 - 09:55 R 15:00 - 15:55	153 NYS 151 CRL	
			03	Reisman, S	A	A	
Ch 080	+	Chemical Research	01	Arnold, F	A	A	P
			02	Dervan, P	A	A	P
			03	Hsieh-Wilson, L	A	A	P
			04	Beauchamp, J	A	A	P
			05	Chan, G	A	A	P
			06	Clemons, W	A	A	P
			07	Reisman, S	A	A	P
			08	Campbell, J	A	A	P
			09	Shan, S	A	A	P
			10	Rees, D	A	A	P
			12	Agapie, T	A	A	P
			13	Davis, M	A	A	P
			14	Asimow, P	A	A	P
			15	Dougherty, D	A	A	P
16	Goddard, W	A	A	P			
17	Gray, H	A	A	P			
18	Shapiro, M	A	A	P			
19	Shapiro, M	A	A	P			
20	Kornfield, J	A	A	P			
21	Yue, Y	A	A	P			
22	Fu, G	A	A	P			

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<b>CHEMISTRY</b>							
Ch 080	+	Chemical Research	23	Rossmann, G	A	A	P
			24	Katz, N	A	A	P
			25	Virgil, S	A	A	P
			26	Gao, W	A	A	P
			27	Okumura, M	A	A	P
			28	See, K	A	A	P
			29	Peters, J	A	A	P
			30	Blake, G	A	A	P
			32	Wei, L	A	A	P
			33	Hoffmann, M	A	A	P
			34	Greer, J	A	A	P
			35	Stoltz, B	A	A	P
			36	Tirrell, D	A	A	P
			38	Lewis, N	A	A	P
			39	Barton, J	A	A	P
			40	Hoelz, A	A	A	P
			41	Eiler, J	A	A	P
			42	Rossmann, G	A	A	P
			43	Blake, G	A	A	P
			44	Cushing, S	A	A	P
46	Robb, M	A	A	P			
47	Hadt, R	A	A	P			
48	See, K	A	A	P			
49	Mayo, S	A	A	P			
Ch 081	+	Independent Reading in Chemistry	01	Stoltz, B	A	A	P
			02	Lewis, N	A	A	P
			03	Chandy, K	A	A	P
			04	Peters, J	A	A	P
			05	Adolphs, R	A	A	P
			06	Agapie, T	A	A	P
			17	Gray, H	A	A	P
			18	Robb, M	A	A	P

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<b>CHEMISTRY</b>										
Ch 082	+	Senior Thesis Research <i>9 units per term</i>	01	Rees, D / Okumura, M	A	A	P			
			02	Hoelz, A / Okumura, M	A	A	P			
			04	Gray, H / Okumura, M	A	A	P			
			05	Okumura, M / Agapie, T	A	A	P			
			06	Peters, J / Okumura, M	A	A	P			
			07	Stoltz, B / Okumura, M	A	A	P			
			08	Tirrell, D / Okumura, M	A	A	P			
			09	Okumura, M / Asimow, P	A	A	P			
			10	Okumura, M / Reisman, S	A	A	P			
			11	Rossmann, G / Okumura, M	A	A	P			
			12	Dougherty, D / Okumura, M	A	A	P			
			13	Goddard, W / Okumura, M	A	A	P			
			14	Hsieh-Wilson, L / Okumura, M	A	A	P			
			15	Wei, L / Okumura, M	A	A	P			
			16	Chan, G / Okumura, M	A	A	P			
			17	Arnold, F / Okumura, M	A	A	P			
			18	Hadt, R / Okumura, M	A	A	P			
			19	Okumura, M	A	A	P			
			21	Okumura, M / Clemons, W	A	A	P			
			22	Reisman, S / Okumura, M	A	A	P			
			23	Robb, M / Okumura, M	A	A	P			
			24	Agapie, T / Okumura, M	A	A	P			
			Ch/ChE 091	2-0-1	Scientific Writing	01	Weitekamp, D	M 14:00 - 15:55	101 SCH	G
			Ch 101	1-0-2	Chemistry Tutorials <i>class cancelled</i>	01	Stoltz, B / See, K	A	A	

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<b>CHEMISTRY</b>							
Ch 102	4-0-5	Introduction to Inorganic Chemistry	01	See, K / Hadt, R	TR 10:30 - 11:55	151 CRL	
Ch/Bi 111	4-0-8	Biochemistry of Gene Expression	01	Parker, C / Semlow, D	TR 11:00 - 11:55 W 14:00 - 15:55	320 BRN 320 BRN	
Ch 120B	1-1-7	Nature of the Chemical Bond	01	Goddard, W	W 15:00 - 15:55	115 BCK	
Ch 121A	3-0-6	Atomic-Level Simulations of Materials and Molecules	01	Goddard, W	MWF 14:00 - 14:55	115 BCK	
Ge/Ch 127	3-0-6	Nuclear Chemistry	01	Burnett, D	OM,M 15:00 - 15:55	B114F NMD	
Ch/ChE 140B	3-0-6	Principles and Applications of Semiconductor Photoelectrochemistry <i>class cancelled</i>	01	Staff	A	A	
Ch 143	3-0-6	NMR Spectroscopy for Structural Identification <i>not open for enrollment</i>	01	Virgil, S	A	A	
ChE/Ch 148	3-0-6	Polymer Physics	01	Wang, Z	TR 10:30 - 11:55	106 SPL	
Ch 153B	3-0-6	Advanced Inorganic Chemistry	01	Hadt, R	F 10:00 - 11:55	147 NYS	
Ch 180	+	Chemical Research	01 2	Agapie, T Eiler, J	A A	A A	P P
BMB/Ch 202C	1-0-0	Biochemistry Seminar Course	01	Clemons, W	R 12:00 - 12:55	320 BRN	P
Ch 213C	1-0-11	Advanced Ligand Field Theory	01	Gray, H	F 13:00 - 13:55	408 BCK	G
Ch 226	3-0-6	Optical and Nonlinear Spectroscopy	01	Blake, G / Cushing, S	TR 13:00 - 14:25	101 SCH	
BMB/Ch 230	2-4-6	Macromolecular Structure Determination with Modern X-ray Crystallography Methods	01	Hoelz, A	W 14:00 - 15:55	101 SCH	G

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<b>CHEMISTRY</b>							
Ch 250	3-0-0	Advanced Topics in Chemistry <i>class cancelled</i>	01	Staff	A	A	P
Ch 279	+	Rotations in Chemistry	01	Agapie, T	A	A	P
			02	Arnold, F	A	A	P
			03	Atwater, H	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
			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
			27	Ismagilov, R	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
			34	Newman, D	A	A	P
			35	Okumura, M	A	A	P
			37	Peters, J	A	A	P

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<b>CHEMISTRY</b>							
Ch 279	+	Rotations in Chemistry	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
55	Nelson, H	A	A	P			
Ch 280	+	Chemical Research	01	Arnold, F	A	A	P
			02	Agapie, T	A	A	P
			04	Beauchamp, J	A	A	P
			05	Bercaw, J	A	A	P
			06	Blake, G	A	A	P
			07	Shan, S	A	A	P
			08	Bjorkman, P	A	A	P
			09	Cai, L	A	A	P
			10	Davis, M	A	A	P
			12	Dougherty, D	A	A	P
			13	Eiler, J	A	A	P
			14	Chong, S	A	A	P
			15	Giapis, K	A	A	P
16	Goddard, W	A	A	P			
17	Gray, H	A	A	P			
18	Manthiram, K	A	A	P			



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<b>CHEMISTRY</b>							
Ch 280	+	Chemical Research	19	Hsieh-Wilson, L	A	A	P
			20	Kornfield, J	A	A	P
			21	Reisman, S	A	A	P
			22	Lewis, N	A	A	P
			23	Wang, Z	A	A	P
			24	Marcus, R	A	A	P
			25	Mayo, S	A	A	P
			26	Goentoro, L	A	A	P
			27	Okumura, M	A	A	P
			28	Clemons, W	A	A	P
			29	Peters, J	A	A	P
			30	Rees, D	A	A	P
			31	Ismagilov, R	A	A	P
			32	Hoelz, A	A	A	P
			33	Haile, S	A	A	P
			34	Seinfeld, J	A	A	P
			35	Stoltz, B	A	A	P
			36	Tirrell, D	A	A	P
			37	Fu, G	A	A	P
			38	Weitekamp, D	A	A	P
			39	Chan, G	A	A	P
			40	Robb, M	A	A	P
			41	Atwater, H	A	A	P
			42	Pierce, N	A	A	P
			43	Hoffmann, M	A	A	P
			45	Sternberg, P	A	A	P
			46	Adkins, J	A	A	P
			47	Lester, H	A	A	P
			48	Wennberg, P	A	A	P
			49	Campbell, J	A	A	P
			50	Hoffmann, M	A	A	P
			51	Wei, L	A	A	P
			52	Tirrell, D	A	A	P

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<b>CHEMISTRY</b>							
Ch 280	+	Chemical Research	53	Deshaies, R	A	A	P
			54	Shapiro, M	A	A	P
			56	Newman, D	A	A	P
			57	Greer, J	A	A	P
			58	Blanquart, G	A	A	P
			60	Yeh, N	A	A	P
			61	Asimow, P	A	A	P
			62	Elowitz, M	A	A	P
			63	See, K	A	A	P
			64	Tai, Y	A	A	P
			65	Cushing, S	A	A	P
			66	Hadt, R	A	A	P
			67	Parker, J	A	A	P
			68	Voorhees, R	A	A	P
			69	Van Valen, D	A	A	P
			70	Faber, K	A	A	P
			71	Semlow, D	A	A	P
72	Bernardi, M	A	A	P			
73	Nelson, H	A	A	P			
74	Anandkumar, A	A	A	P			
75	Chou, T	A	A	P			
76	Demirer, G	A	A	P			
<b>CIVIL ENGINEERING</b>							
Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	133 GUG	P
Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Pellegrino, S	TR 09:00 - 10:25	133 GUG	G
AM/CE/ME 150C	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	135 GTL	P
CE 200	+	Advanced Work in Civil Engineering	01	Staff	A	A	P

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<b>CIVIL ENGINEERING</b>							
CE 300	+	Research in Civil Engineering	01	Pellegrino, S	A	A	P
			04	Andrade, J	A	A	P
			05	Lapusta, N	A	A	P
			06	Asimaki, D	A	A	P
			07	Daraio, C	A	A	P
			08	Fu, X	A	A	P
<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS/Psy/Bi 102B	3-0-6	Brains, Minds, and Society <i>maximum enrollment: 20 students</i>	01	Camerer, C	TR 13:00 - 14:25	B119 BAX	
EE/CNS/CS 148	3-0-6	Selected Topics in Computational Vision: Large Language and Vision Models	01	Perona, P / Gkioxari, G	TR 10:30 - 11:55	100 CNRB	
NB/Bi/CNS 150	4-0-6	Introduction to Neuroscience	01	Adolphs, R / Lester, H	R 14:00 - 14:55 MWF 10:00 - 10:55	101 KRK 130 CNRB	G
			02	Lester, H / Adolphs, R	MWF 10:00 - 10:55 R 11:00 - 11:55	130 CNRB 152 BRN	G
			03	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 20:00 - 20:55	130 CNRB 101 KRK	G
			04	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 19:00 - 19:55	130 CNRB 101 KRK	G
CS/CNS/EE 156B	3-1-5	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	B270 MRE	
Bi/CNS 158	3-0-6	Vertebrate Evolution <i>class meets in B136 KRK during rain</i>	01	Allman, J	F 14:00 - 15:55	BBE Tent Caltech Hall	G
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Astudillo Marban, R	TR 14:30 - 15:55	134 (Auditorium) BCK	
CNS/Bi/Psy/NB 176	4-0-5	Cognition <i>class will meet in KRK 101 on 4/10/23 and 4/19/23</i>	01	Shimojo, S	MW 14:00 - 15:55	130 CNRB	
CNS180	+	Research in Computation and Neural Systems	01	Anandkumar, A	A	A	P
			02	Anderson, D	A	A	P

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<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS180	+	Research in Computation and Neural Systems	03	Pierce, N	A	A	P
			04	Andersen, R	A	A	P
			05	Burdick, J	A	A	P
			06	O'Doherty, J	A	A	P
			07	Tsao, D	A	A	P
			08	Lester, H	A	A	P
			09	Dickinson, M	A	A	P
			10	Elowitz, M	A	A	P
			11	Rutishauser, U	A	A	P
			12	Murray, R	A	A	P
			13	Rutishauser, U	A	A	P
			14	Quartz, S	A	A	P
			15	Perona, P	A	A	P
			16	Allman, J	A	A	P
			17	Murray, R	A	A	P
			18	Shimojo, S	A	A	P
			19	Siapas, A	A	A	P
			20	Shapiro, M	A	A	P
			21	Winfree, E	A	A	P
			22	Wold, B	A	A	P
			23	Kennedy, M	A	A	P
			24	Adolphs, R	A	A	P
			25	Camerer, C	A	A	P
			26	Rangel, A	A	A	P
			27	Thomson, M	A	A	P
			28	Gradinaru, V	A	A	P
			29	Prober, D	A	A	P
			30	Yue, Y	A	A	P
			31	Meister, M	A	A	P
			32	Hong, E	A	A	P
			33	Ames, A	A	A	P
			34	Pachter, L	A	A	P
			35	Van Valen, D	A	A	P

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<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS180	+	Research in Computation and Neural Systems	37	Mobbs, D	A	A	P
CNS/Bi/Ph/CS/NB 187	3-0-6	Neural Computation	01	Meister, M / Rutishauser, U	TR 10:30 - 11:55	B180 BBB	
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation <i>class cancelled</i>	01	Winfree, E	A	A	
Bi/CNS/BE/NB 230	3-2-4	Optogenetic and CLARITY Methods in Experimental Neuroscience	01	Gradinaru, V	WR 13:00 - 14:55	340A CNRB	
Bi/BE/CNS/NB 241	1-8-0	Spatial Genomics <i>maximum enrollment: 6 students</i>	01	Cai, L	M 11:00 - 11:55	B115 CNRB	
NB/Bi/CNS 250C	3-0-6	Topics in Systems Neuroscience	01	Siapas, A	W 14:00 - 16:55	100 CNRB	
Psy/Bi/CNS 255	3-0-6	Topics in Emotion and Social Cognition <i>maximum enrollment: 12 students</i>	01	Mobbs, D	W 10:00 - 12:55	128 BAX	
CNS280	+	Research in Computation and Neural Systems	01	Abu-Mostafa, Y	A	A	P
			02	Elowitz, M	A	A	P
			03	Burdick, J	A	A	P
			04	Andersen, R	A	A	P
			05	Bruck, J	A	A	P
			06	Hoffmann, M	A	A	P
			07	Tsao, D	A	A	P
			08	Murray, R	A	A	P
			09	Meister, M	A	A	P
			10	Hong, E	A	A	P
			11	Camerer, C	A	A	P
			12	Perona, P	A	A	P
			13	Adolphs, R	A	A	P
			14	Scherer, A	A	A	P
			15	Shimojo, S	A	A	P
			16	Siapas, A	A	A	P
			17	Sternberg, P	A	A	P

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<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS280	+	Research in Computation and Neural Systems	18	Wold, B	A	A	P
			19	Winfree, E	A	A	P
			20	Lester, H	A	A	P
			21	Dickinson, M	A	A	P
			22	Quartz, S	A	A	P
			23	O'Doherty, J	A	A	P
			24	Allman, J	A	A	P
			25	Oka, Y	A	A	P
			26	Rangel, A	A	A	P
			27	Gradinaru, V	A	A	P
			28	Lois, C	A	A	P
			29	Thomson, M	A	A	P
			30	Mobbs, D	A	A	P
			31	Rutishauser, U	A	A	P
32	Van Valen, D	A	A	P			
33	Hong, E	A	A	P			
<b>COMPUTER SCIENCE</b>							
CS 001	3-4-2	Introduction to Computer Programming	01	Hovik, M	MWF 13:00 - 13:55	213 ANB	P
CS 003	1-6-2	Introduction to Software Design	01	Blank, A	MW 14:00 - 14:55	134 (Auditorium) BCK	G
Ma/CS 006C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma 106c</i>	01	Kechris, A	TR 13:00 - 14:25	310 LINDE	
EE/CS 010B	2-3-1	Introduction to Digital Logic and Embedded Systems	01	George, G	TF 15:00 - 15:55	B280 MRE	
CS 012	+	Student-Taught Topics in Computing <i>Section 1: TensorFlow // Section 4: Introduction to Quantum Computation and Algorithms - 6 units // Section 8: Introduction to Network Science, OM details will be posted on Canvas</i>	01	Vanier, M	M 19:00 - 19:55	121 ANB	P
			04	Ralph, C	M 15:00 - 16:25	213 ANB	P
			08	Blank, A	OM,A	A	P

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<b>COMPUTER SCIENCE</b>							
CS 038	3-0-6	Algorithms	01	Schroeder, P	TR 09:00 - 10:25	119 KRK	
CS 042	2-2-2	Computer Science Education in K-14 Settings	01	Wierman, A / Ralph, C	F 10:00 - 10:55	104 ANB	P
CS 080C	+	Undergraduate Thesis	01	Schroeder, P	A	A	P
			02	Murray, R	A	A	P
			03	Winfrey, E	A	A	P
			04	Barr, A	A	A	P
			05	Katz, N	A	A	P
			06	Perona, P	A	A	P
			07	Yue, Y	A	A	P
			08	Bruck, J	A	A	P
			09	Desbrun, M	A	A	P
			10	Schulman, L	A	A	P
			11	Umans, C	A	A	P
			12	Bouman, K	A	A	P
			13	Wierman, A	A	A	P
			14	Chung, S	A	A	P
			15	Adolphs, R	A	A	P
			16	Anandkumar, A	A	A	P
			17	Fischer, W	A	A	P
CS 081C	+	Undergraduate Projects in Computer Science	01	Schulman, L	A	A	P
			02	Barr, A	A	A	P
			03	Chandy, K	A	A	P
			04	Desbrun, M	A	A	P
			05	Perona, P	A	A	P
			06	Low, S	A	A	P
			07	Vanier, M	A	A	P
			08	Murray, R	A	A	P
			09	Winfrey, E	A	A	P
			10	Wierman, A	A	A	P
			11	Umans, C	A	A	P

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<b>COMPUTER SCIENCE</b>							
CS 081C	+	Undergraduate Projects in Computer Science	12	Adolphs, R	A	A	P
			13	Pinkston, D	A	A	P
			14	Burdick, J	A	A	P
			15	Plott, C	A	A	P
			16	Mahabal, A	A	A	P
			17	Yue, Y	A	A	P
			18	George, G	A	A	P
			19	Abu-Mostafa, Y	A	A	P
			20	Schroeder, P	A	A	P
			21	Djorgovski, S	A	A	P
			22	Stalzer, M	A	A	P
			23	Vidick, T	A	A	P
			24	Hajimiri, S	A	A	P
			25	Ralph, C	A	A	P
			26	Rangel, A	A	A	P
			27	Alvarez, R	A	A	P
			28	Bunn, J	A	A	P
			29	Thomson, M	A	A	P
			30	Chung, S	A	A	P
			31	Lombeyda, S	A	A	P
			32	Blank, A	A	A	P
			33	Anandkumar, A	A	A	P
			34	Van Valen, D	A	A	P
			35	Tamuz, O	A	A	P
36	Bouman, K	A	A	P			
37	Pachter, L	A	A	P			
38	Sternberg, P	A	A	P			
39	Qian, L	A	A	P			
40	Ames, A	A	A	P			
41	Emami, A	A	A	P			
42	Mushkin, H	A	A	P			
43	Shapiro, M	A	A	P			
44	Baptista, R	A	A	P			



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Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>COMPUTER SCIENCE</b>							
CS 081C	+	Undergraduate Projects in Computer Science	45	Gkioxari, G	A	A	P
CS 090	+	Undergraduate Reading in Computer Science	01	Winfree, E	A	A	P
			02	Barr, A	A	A	P
			03	Low, S	A	A	P
			04	Umans, C	A	A	P
			05	Bruck, J	A	A	P
			06	Pinkston, D	A	A	P
			07	Desbrun, M	A	A	P
			08	Arnold, F	A	A	P
			09	Schulman, L	A	A	P
			10	Perona, P	A	A	P
			11	Schroeder, P	A	A	P
			12	Wierman, A	A	A	P
			13	Yue, Y	A	A	P
			14	Abu-Mostafa, Y	A	A	P
15	Vidick, T	A	A	P			
16	Anandkumar, A	A	A	P			
18	Ralph, C	A	A	P			
19	Anderson, D	A	A	P			
20	Chung, S	A	A	P			
21	Bronner Hansen, M	A	A	P			
22	Gkioxari, G	A	A	P			
CS 101	3-0-6	Special Topics in Computer Science: Mathematical Foundations of CS <i>by instructor permission only</i>	01	Blank, A	MWF 11:00 - 11:55	105 ANB	G
CS 102C	+	Seminar in Computer Science	01	Staff	A	A	
CS 103C	+	Reading in Computer Science	01	Staff	A	A	P
Ma/CS 106C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma/CS 006c</i>	01	Kechris, A	TR 13:00 - 14:25	310 LINDE	

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<b>COMPUTER SCIENCE</b>							
CS 115	3-4-2	Functional Programming	01	Vanier, M	MWF 14:00 - 14:55	105 ANB	G
Ma/CS 117C	3-0-6	Computability Theory	01	Ervin, G	TR 13:00 - 14:25	187 LINDE	
EE/CS 119C	3-3-3	Advanced Digital Systems Design	01	George, G	OM,T 16:00 - 16:55	B280 MRE	
CS 124	3-6-3	Operating Systems	01	Pinkston, D	MWF 13:00 - 13:55	105 ANB	
EE/CS/MedE 125	3-6-0	Digital Circuit Design with FPGAs and VHDL <i>OM will be held on Tuesday, April 11th at 4pm // first class on Wednesday, April 12th</i>	01	Pedroni, V	OM,T 16:00 - 16:55 W 14:30 - 15:55	B280 MRE B280 MRE	G
ME/CS/EE 129	1-7-1	Experimental Robotics	01	Niemeyer, G	MWF 13:00 - 13:55	135 GTL	
CS 131	3-0-6	Programming Languages <i>maximum enrollment: 30 students // CS 4 (in OCaml) is a hard prerequisite (i.e. CS 4 starting in Winter 2016) // CS majors get top priority</i>	01	Vanier, M	MWF 15:00 - 15:55	104 ANB	G
CS 132	3-0-6	Web Development	01	Hovik, M	TR 10:30 - 11:55	105 ANB	
EE/Ma/CS/IDS 136	3-0-6	Information Theory and Applications	01	Kostina, V	MW 10:30 - 11:55	B280 MRE	
CS 138	3-0-6	Computer Algorithms	01	Schroeder, P	TR 09:00 - 10:25	119 KRK	
CS/EE 145	0-0-9	Projects in Networking	01	Wierman, A	OM,M 10:00 - 10:55	105 ANB	
EE/CNS/CS 148	3-0-6	Selected Topics in Computational Vision: Large Language and Vision Models	01	Perona, P / Gkioxari, G	TR 10:30 - 11:55	100 CNRB	
CS/Ec 149	3-0-6	Algorithmic Economics	01	Sandomirskii, F	MW 10:30 - 11:55	104 ANB	

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<b>COMPUTER SCIENCE</b>							
CS/IDS 150B	3-0-6	Probability and Algorithms	01	Schulman, L	TR 10:30 - 11:55	104 ANB	
CS 151	3-0-9	Complexity Theory	01	Umans, C	TR 13:00 - 14:25	213 ANB	
CS/IDS 153	3-0-6	Current Topics in Theoretical Computer Science	01	Mahadev, U	F 13:00 - 15:55	106 ANB	
CS/CNS/EE 156B	3-1-5	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	B270 MRE	
IDS/ACM/CS 157	3-2-4	Statistical Inference	01	Zuev, K	TR 09:00 - 10:25	Lecture Hall BAX	
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Astudillo Marban, R	TR 14:30 - 15:55	134 (Auditorium) BCK	
ME/CS/EE 169	1-7-1	Mobile Robots	01	Niemeyer, G	MWF 15:00 - 15:55	135 GTL	
EE/CS/MedE 175	3-6-0	Advanced Topics in Digital Design with FPGAs and VHDL <i>class cancelled</i>	01	Pedroni, V	A	A	G
CS 179	3-3-3	GPU Programming	01	Barr, A	MWF 15:00 - 15:55	105 ANB	
CS 180	+	Master's Thesis Research	01	Abu-Mostafa, Y	A	A	P
			02	Desbrun, M	A	A	P
			03	Chandy, K	A	A	P
			04	Wierman, A	A	A	P
			05	Perona, P	A	A	P
			07	Low, S	A	A	P
			08	Martin, A	A	A	P
			09	Kitaev, A	A	A	P
			11	Schroeder, P	A	A	P
			13	Winfrey, E	A	A	P
			14	Umans, C	A	A	P

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<b>COMPUTER SCIENCE</b>							
CS 180	+	Master's Thesis Research	15	Wold, B	A	A	P
			16	Siapas, A	A	A	P
			17	Ligett, K	A	A	P
CNS/Bi/Ph/CS/NB 187	3-0-6	Neural Computation	01	Meister, M / Rutishauser, U	TR 10:30 - 11:55	B180 BBB	
BE/CS/CNS/Bi 191B	2-4-3	Biomolecular Computation <i>class cancelled</i>	01	Winfree, E	A	A	
BE/CS 196B	2-8-2	Design and Construction of Programmable Molecular Systems <i>class cancelled</i>	01	Staff	A	A	
Ph/CS 219C	3-0-6	Quantum Computation	01	Preskill, J	MW 14:30 - 15:55	269 LAU	P
CS 280	+	Research in Computer Science	01	Abu-Mostafa, Y	A	A	P
			02	Barr, A	A	A	P
			03	Cvitanic, J	A	A	P
			04	Umans, C	A	A	P
			05	Desbrun, M	A	A	P
			06	Winfree, E	A	A	P
			07	Low, S	A	A	P
			08	Martin, A	A	A	P
			09	Chandy, K	A	A	P
			10	Perona, P	A	A	P
			11	Schroeder, P	A	A	P
			12	Ligett, K	A	A	P
			13	Kitaev, A	A	A	P
			14	Wierman, A	A	A	P
			15	Winfree, E	A	A	P
			16	Doyle, J	A	A	P
			17	Vidick, T	A	A	P
			18	Yue, Y	A	A	P
			19	Gkioxari, G	A	A	P

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<b>COMPUTING AND MATHEMATICAL SCIENCES</b>							
CMS290C	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	Pachter, L	A	A	P
			19	Anandkumar, A	A	A	P
			20	Thomson, M	A	A	P
			21	Stuart, A	A	A	P
			22	Van Valen, D	A	A	P
			23	Bouman, K	A	A	P
			24	Bruck, J	A	A	P
			25	Chung, S	A	A	P
<b>CONTROL &amp; DYNAMICAL SYSTEMS</b>							
CDS090C	0-0-9	Senior Thesis in Control & Dynamical Systems	01	Murray, R	A	A	G

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<b>CONTROL &amp; DYNAMICAL SYSTEMS</b>							
CDS110	3-3-3	Introduction to Feedback Control Systems <i>taught concurrently with ChE105</i>	01	Ong, P	MWF 13:00 - 13:55	106 SPL	G
CDS190	+	Independent Work in Control and Dynamical Systems	01	Chung, S	A	A	P
CDS231	+	Robust Control Theory	01	Doyle, J	TR 13:00 - 14:25	106 ANB	
CDS233	3-0-6	Nonlinear Control	01	Ames, A	MWF 16:00 - 17:25	135 GTL	
ME/CDS/EE 234B	3-3-3	Advanced Robotics: Planning	01	Burdick, J	MWF 14:00 - 14:55	232 GUG	
CDS243	2-0-2	Adaptive Control	01	Lavretsky, E	F 10:00 - 11:55	106 ANB	G
CDS245	3-0-6	Data-driven Control	01	Chung, S	TR 14:30 - 15:55	104 ANB	
CDS300C	+	Research in Control and Dynamical Systems	01	Burdick, J	A	A	P
			02	Doyle, J	A	A	P
			03	Goentoro, L	A	A	P
			04	Beck, J	A	A	P
			05	Dickinson, M	A	A	P
			06	Murray, R	A	A	P
			07	Owhadi, H	A	A	P
			08	Quartz, S	A	A	P
			09	Elowitz, M	A	A	P
			11	Desbrun, M	A	A	P
			12	Ortiz, M	A	A	P
			13	Adolphs, R	A	A	P
			14	Siapas, A	A	A	P
			16	Ames, A	A	A	P
			17	Chung, S	A	A	P

**ECONOMICS**

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<b>ECONOMICS</b>							
Ec 097	+	Undergraduate Research <i>Instructor permission required prior to registering</i>	01	Nielsen, K	A	A	P
Ec 098C	+	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	01	Taylor, L	TR 14:30 - 15:55	117 DAB	
Ec 117	3-0-6	Matching Markets	01	Pomatto, L	MW 14:30 - 15:55	B125 BAX	G
BEM/Ec 120	3-0-6	Introduction to Sports Science	01	Alvarez, R / Eslinger, O	TR 13:00 - 14:25	121 BCK	G
CS/Ec 149	3-0-6	Algorithmic Economics	01	Sandomirskii, F	MW 10:30 - 11:55	104 ANB	
PS/Ec 172	3-0-6	Game Theory	01	Tamuz, O	TR 13:00 - 14:25	Lecture Hall BAX	
<b>ELECTRICAL ENGINEERING</b>							
EE 001	3-0-6	The Science of Data, Signals, and Information	01	Vaidyanathan, P	TR 14:30 - 15:55	105 ANB	
FS/EE 005	1-5-0	Freshman Seminar: Introduction to Waves <i>class cancelled</i>	01	Yang, C	A	A	P
EE/CS 010B	2-3-1	Introduction to Digital Logic and Embedded Systems	01	George, G	TF 15:00 - 15:55	B280 MRE	
APh/EE 024	3-0-6	Introductory Optics and Photonics Laboratory <i>class cancelled</i>	01	Matsko, A	A	A	
EE 045	3-3-6	Electronics Systems and Laboratory	01	Emami, A	TR 09:00 - 10:25	B280 MRE	

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<b>ELECTRICAL ENGINEERING</b>							
EE 080C	+	Senior Thesis	01	Vaidyanathan, P	A	A	P
			02	Scherer, A	A	A	P
			03	Hajimiri, S	A	A	P
			04	Hassibi, B	A	A	P
			05	Tai, Y	A	A	P
			06	Effros, M	A	A	P
			07	Doyle, J	A	A	P
			08	Abbott, R	A	A	P
			09	Emami, A	A	A	P
			10	George, G	A	A	P
			11	Choo, H	A	A	P
			12	Van Valen, D	A	A	P
			13	Marandi, A	A	A	P
			14	Yue, Y	A	A	P
EE 090	1-8-0	Analog Electronics Project Laboratory	01	Kalantar Ohanian, R	OM,T 16:00 - 16:55	B270 MRE	G
EE 099	+	Advanced Work in Electrical Engineering	01	George, G	A	A	P
			02	Perona, P	A	A	P
			03	Scherer, A	A	A	P
			04	Meyerowitz, E	A	A	P
			05	Marandi, A	A	A	P
			06	Murray, R	A	A	P
			07	Low, S	A	A	P
			08	Yang, C	A	A	P
			09	Martin, A	A	A	P
			10	Chandy, K	A	A	P
			11	Tai, Y	A	A	P
			12	Hajimiri, S	A	A	P
			13	Emami, A	A	A	P
			14	Gharib, M	A	A	P
			15	Yariv, A	A	A	P
			16	Bruck, J	A	A	P



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<b>ELECTRICAL ENGINEERING</b>							
EE 099	+	Advanced Work in Electrical Engineering	17	Doyle, J	A	A	P
			18	Atwater, H	A	A	P
			19	Effros, M	A	A	P
			20	Kalantar Ohanian, R	A	A	P
			21	Kostina, V	A	A	P
EE 105C	1-0-0	Electrical Engineering Seminar	01	Emami, A	A	A	P
APh/EE 109	0-6-3	Introduction to the Micro/Nanofabrication Lab	01	Ghaffari, A	OM,W 16:00 - 16:55	104 WAT	
EE/MedE 114B	4-0-8	Analog Circuit Design	01	Hajimiri, S	TR 09:00 - 10:55	B270 MRE	
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement <i>class cancelled</i>	01	Roukes, M	A	A	P
EE/CS 119C	3-3-3	Advanced Digital Systems Design	01	George, G	OM,T 16:00 - 16:55	B280 MRE	
EE/CS/MedE 125	3-6-0	Digital Circuit Design with FPGAs and VHDL <i>OM will be held on Tuesday, April 11th at 4pm // first class on Wednesday, April 12th</i>	01	Pedroni, V	OM,T 16:00 - 16:55 W 14:30 - 15:55	B280 MRE B280 MRE	G
ME/CS/EE 129	1-7-1	Experimental Robotics	01	Niemeyer, G	MWF 13:00 - 13:55	135 GTL	
EE/Ma/CS/IDS 136	3-0-6	Information Theory and Applications	01	Kostina, V	MW 10:30 - 11:55	B280 MRE	
CS/EE 145	0-0-9	Projects in Networking	01	Wierman, A	OM,M 10:00 - 10:55	105 ANB	
EE/CNS/CS 148	3-0-6	Selected Topics in Computational Vision: Large Language and Vision Models	01	Perona, P / Gkioxari, G	TR 10:30 - 11:55	100 CNRB	
EE 150	3-0-6	Topics in Electrical Engineering: Digital Logic Testing and Simulation	01	George, G	TF 16:00 - 17:25	B280 MRE	P

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<b>ELECTRICAL ENGINEERING</b>							
EE 151	3-0-6	Electromagnetic Engineering	01	Yang, C	TR 11:00 - 12:25	B280 MRE	
CS/CNS/EE 156B	3-1-5	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	B270 MRE	
Ge/EE/ESE 157C	3-3-3	Remote Sensing for Environmental and Geological Applications	011	Ehlmann, B	TR 09:00 - 10:25	162 SMD	
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Astudillo Marban, R	TR 14:30 - 15:55	134 (Auditorium) BCK	
ME/CS/EE 169	1-7-1	Mobile Robots	01	Niemeyer, G	MWF 15:00 - 15:55	135 GTL	
ACM/EE/IDS 170	3-0-9	Mathematics of Signal Processing	01	Hassibi, B	TR 10:30 - 11:55	213 ANB	G
EE/CS/MedE 175	3-6-0	Advanced Topics in Digital Design with FPGAs and VHDL <i>class cancelled</i>	01	Pedroni, V	A	A	G
APh/EE 183	3-0-6	Physics of Semiconductors and Semiconductor Devices	01	Nad Perge, S	TR 13:00 - 14:25	104 WAT	
BE/EE/MedE 189A	3-6-3	Design and Construction of Biodevices <i>maximum enrollment: 20 students // contact instructor if class is full // Enrollment is limited based on laboratory capacity</i>	01	Yang, C	TR 14:30 - 15:55	B127 KRK	
BE/EE/MedE 189B	0-9-0	Design and Construction of Biodevices	01	Yang, C	TR 14:30 - 15:55	B127 KRK	
APh/EE 190B	3-0-6	Quantum Electronics	01	Vahala, K	TR 13:00 - 14:25	142 KCK	
ME/CDS/EE 234B	3-3-3	Advanced Robotics: Planning	01	Burdick, J	MWF 14:00 - 14:55	232 GUG	
EE 291	+	Advanced Work in Electrical Engineering	01 02	Atwater, H Wang, L	A A	A A	P P

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<b>ELECTRICAL ENGINEERING</b>							
EE 291	+	Advanced Work in Electrical Engineering	03	Bruck, J	A	A	P
			04	Burdick, J	A	A	P
			05	Abu-Mostafa, Y	A	A	P
			06	Doyle, J	A	A	P
			07	Effros, M	A	A	P
			08	Heath, J	A	A	P
			09	George, G	A	A	P
			10	Weinreb, S	A	A	P
			11	Hajimiri, S	A	A	P
			12	Hassibi, B	A	A	P
			13	Campbell, J	A	A	P
			14	Low, S	A	A	P
			15	Phillips, R	A	A	P
			16	Choo, H	A	A	P
			17	Murray, R	A	A	P
			18	Perona, P	A	A	P
			19	Vahala, K	A	A	P
			20	Gharib, M	A	A	P
			21	Psaltis, D	A	A	P
			22	Haile, S	A	A	P
			23	Quartz, S	A	A	P
			24	Roukes, M	A	A	P
			25	Tsao, D	A	A	P
			26	Scherer, A	A	A	P
			27	Cvitanic, J	A	A	P
			28	Tai, Y	A	A	P
			29	Vaidyanathan, P	A	A	P
			30	Yariv, A	A	A	P
			31	Hoffmann, M	A	A	P
			32	Yang, C	A	A	P
			33	Chandrasekaran, V	A	A	P
			34	Martin, A	A	A	P
			35	Avouac, J	A	A	P

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<b>ELECTRICAL ENGINEERING</b>							
EE 291	+	Advanced Work in Electrical Engineering	36	Bridges, W	A	A	P
			37	Zmuidzinas, J	A	A	P
			38	Emami, A	A	A	P
			39	Painter, O	A	A	P
			40	Faraon, A	A	A	P
			41	Pellegrino, S	A	A	P
			42	Hallinan, G	A	A	P
			43	Lahouti, F	A	A	P
			44	Minnich, A	A	A	P
			45	Kostina, V	A	A	P
			46	Greer, J	A	A	P
			47	Yue, Y	A	A	P
			48	Shapiro, M	A	A	P
			49	Yeh, N	A	A	P
			50	Marandi, A	A	A	P
			51	Anderson, D	A	A	P
			52	Mirhosseini, M	A	A	P
53	Vidick, T	A	A	P			
56	Greer, J	A	A	P			
<b>ENGINEERING</b>							
E 100	+	Special Topics in Engineering & Applied Science <i>Sec 1: : Designing Your Caltech Experience, open to freshman and sophomores from all options, 3 units (2-1-0), p/f only, max enrollment: 12 students // Sec 2: Caltech Rover Autonomy, Technology, and Exploration Research (CRATER) Project, 6 units (1-0-5)</i>	01	Dabiri, M	F 12:00 - 13:55	100 PWL/BTH	
			02	Chung, S	OM,M 12:00 - 12:55	232 GUG	
E/SEC 102	3-0-6	Scientific and Technology Entrepreneurship <i>maximum enrollment: 40 students // juniors and above only</i>	01	Wilson, N	M 13:00 - 15:55	103 DWN	G
E/SEC 103	3-0-6	Management of Technology <i>Open by application only, use this link to request</i>	01	Murray, R	MW 13:30 - 14:55	B270 MRE	

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<b>ENGINEERING</b>							
E 110	2-0-1	Principles of University Teaching and Learning in STEM <i>maximum enrollment: 20 students // open to upperclass undergrads and graduate students only</i>	01	Dabiri, M	W 13:00 - 14:25	100 PWL/BTH	P
<b>ENGLISH</b>							
Hum/En 021	3-0-6	Monsters and Marvels <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Jahner, J	TR 09:00 - 10:25	128 BAX	
Hum/En 022	3-0-6	Inequality <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students per section</i>	01 02	Haugen, K Haugen, K	TR 09:00 - 10:25 TR 14:30 - 15:55	B119 BAX B119 BAX	
Hum/En 025	3-0-6	Human Animal <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Holland, J	TR 09:00 - 10:25	125 BAX	
Hum/En 032	3-0-6	Introduction to Black Feminist Poetics <i>Attendance at first class meeting is required. // Maximum enrollment: 10 students</i>	01	Murphy, D	TR 14:30 - 15:55	115 DAB	
En/Wr 084	3-0-6	Communicating Science to Non-Experts <i>maximum enrollment: 15 students // graduate students can only enroll with instructor's permission</i>	01	Hall, S	TR 13:00 - 14:25	128 BAX	
En 085	3-0-6	Poetry Writing <i>maximum enrollment: 12 students // class full, see instructor for waitlist</i>	01	Factor, J	T 19:00 - 21:55	128 BAX	
En 089	3-0-6	Journalism and Storytelling <i>maximum enrollment: 12 students</i>	01	Kipling, R	T 19:00 - 21:55	115 DAB	
En 098	+	Reading in English <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P

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<b>ENGLISH</b>							
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 100	3-0-6	Artificial Life: Literary Automata <i>maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Holland, J	TR 13:00 - 14:25	127 BAX	
En 112	3-0-6	Nineteenth-Century American Poetry <i>maximum enrollment: 15 students</i>	01	Hill, A	TR 14:30 - 15:55	125 BAX	
En/VC 160A	3-0-6	Classical Hollywood Cinema <i>maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Jurca, C	TR 10:30 - 11:55	B119 BAX	
En 163	3-0-6	Octavia E. Butler and the Literature of Black Futures <i>maximum enrollment: 10 students // email instructor to request enrollment</i>	01	Murphy, D	TR 10:30 - 11:55	128 BAX	
En 180	3-0-6	Special Topics in English: The Queer Harlem Renaissance <i>class cancelled</i>	01	Quarterman, K	A	A	G
<b>ENGLISH AS A SECOND LANGUAGE</b>							
ESL/Wr 107	3-0-3	Fundamentals of Scientific Writing <i>maximum enrollment: 15 students</i>	01	Manoukian, N	TR 15:30 - 16:55	121 BCK	P
<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
ESE001	3-0-6	Earth's Climate <i>maximum enrollment: 50 students // class will meet in 151 Crellin on 4/26 and 5/22</i>	01	Wennberg, P	MWF 14:00 - 14:55	B122 GCL	
ESE090	+	Undergraduate Laboratory Research in Environmental Science and Engineering	01	Newman, D	A	A	P
			02	Sessions, A	A	A	P
			03	Thompson, A	A	A	P
			04	Hoffmann, M	A	A	P
			05	Bordoni, S	A	A	P
			06	Leadbetter, J	A	A	P

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<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
ESE090	+	Undergraduate Laboratory Research in Environmental Science and Engineering	07	Adkins, J	A	A	P
			08	Flagan, R	A	A	P
			09	Frankenberg, C	A	A	P
			10	Yung, Y	A	A	P
ESE100	+	Special Problems in Environmental Science and Engineering <i>up to 12 units by arrangement</i>	01	Adkins, J	A	A	P
			02	Flagan, R	A	A	P
			03	Sessions, A	A	A	P
			04	Hoffmann, M	A	A	P
			05	Thompson, A	A	A	P
			06	Kornfield, J / Diallo, M	A	A	P
			07	Diallo, M	A	A	P
			08	Yung, Y	A	A	P
			09	Seinfeld, J	A	A	P
			10	Wennberg, P	A	A	P
			11	Diallo, M / Kornfield, J	A	A	P
			12	Schneider, T	A	A	P
			13	Leadbetter, J	A	A	P
			14	Fischer, W	A	A	P
			15	Lamb, M	A	A	P
ESE106	+	Research in Environmental Science and Engineering	01	Adkins, J	A	A	P
			02	Blake, G	A	A	P
			03	Bordoni, S	A	A	P
			04	Eiler, J	A	A	P
			05	Flagan, R	A	A	P
			06	Hoffmann, M	A	A	P
			07	Ingersoll, A	A	A	P
			08	Lamb, M	A	A	P
			09	Leadbetter, J	A	A	P
			10	Newman, D	A	A	P
			11	Okumura, M	A	A	P
			12	Orphan, V	A	A	P
			13	Schneider, T	A	A	P
			14	Seinfeld, J	A	A	P

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<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
ESE106	+	Research in Environmental Science and Engineering	15	Sessions, A	A	A	P
			16	Wennberg, P	A	A	P
			17	Yung, Y	A	A	P
			18	Thompson, A	A	A	P
			19	Frankenberg, C	A	A	P
			20	Callies, J	A	A	P
ESE110C	1-0-0	Seminar in Environmental Science and Engineering	01	Callies, J	W 16:00 - 16:55	365 SMD	P
Ge/ESE 125	3-5-4	Geomorphology	01	Lamb, M	MWF 11:00 - 11:55 F 14:00 - 16:55	251 ARM 311 NMD	
ESE130	3-0-6	Introduction to Atmosphere and Ocean Dynamics	01	Callies, J	MWF 11:00 - 11:55	136 LLB	
ESE136	2-0-4	Climate Models	01	Schneider, T / Novakova, L	TR 14:30 - 15:55	162 SMD	
Ge/ESE 143	3-2-4	Organic Geochemistry	01	Sessions, A	MWF 11:00 - 11:55	215 NMD	
Ge/ESE 150	3-0-6	Planetary Atmospheres	01	Knutson, H	MWF 14:00 - 14:55	162 SMD	
Ge/EE/ESE 157C	3-3-3	Remote Sensing for Environmental and Geological Applications	011	Ehlmann, B	TR 09:00 - 10:25	162 SMD	
Ge/ESE 298	+	Mentoring and Outreach <i>meets Mondays 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
			06	Gurnis, M	A	A	P
ESE300	+	Thesis Research	01	Adkins, J	A	A	P
			02	Sessions, A	A	A	P
			03	Okumura, M	A	A	P
			04	Hoffmann, M	A	A	P



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<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>										
ESE300	+	Thesis Research	05	Ingersoll, A	A	A	P			
			06	Leadbetter, J	A	A	P			
			07	Flagan, R	A	A	P			
			08	Orphan, V	A	A	P			
			09	Seinfeld, J	A	A	P			
			10	Wennberg, P	A	A	P			
			11	Yung, Y	A	A	P			
			12	Schneider, T	A	A	P			
			13	Bordoni, S	A	A	P			
			14	Thompson, A	A	A	P			
			15	Callies, J	A	A	P			
			16	Frankenberg, C	A	A	P			
			<b>FIRST-YEAR SEMINARS</b>							
			FS/Ay 003	2-0-4	First-Year Seminar: Automating Discovering the Universe <i>maximum enrollment: 12 students</i>	01	Kulkarni, S	OM,A	A	P
			FS/EE 005	1-5-0	Freshman Seminar: Introduction to Waves <i>class cancelled</i>	01	Yang, C	A	A	P
			FS/Ph 011C	2-0-4	First-Year Seminar: Beyond Physics	01	Phillips, R	A	A	P
<b>GEOLOGY</b>										
Ge 001	3-3-3	Earth and Environment <i>continuous 2-hour lab sessions on ALTERNATE Tuesdays from 9:00 to 9:00 PM on April 4, April 18, May 2, May 16, and May 30</i>	01	Asimow, P	MWF 14:00 - 14:55	155 ARM	G			
Ge/Ay 011C	3-0-6	Introduction to Earth and Planetary Sciences: Planetary Sciences <i>Taught concurrently with Ge 103</i>	01	Ehlmann, B	TR 13:00 - 14:25	162 SMD				
Ge 040	+	Special Problems for Undergraduates	01	Kirschvink, J	A	A	P			
			02	Knutson, H	A	A	P			
			03	Lamb, M	A	A	P			

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<b>GEOLOGY</b>										
Ge 040	+	Special Problems for Undergraduates	04	Adkins, J	A	A	P			
			05	Rossmann, G	A	A	P			
			06	Ingersoll, A	A	A	P			
			07	Asimow, P	A	A	P			
			08	Clayton, R	A	A	P			
			09	Sessions, A	A	A	P			
			10	Yung, Y	A	A	P			
			11	Eiler, J	A	A	P			
			12	Jackson, J	A	A	P			
			13	Brown, M	A	A	P			
			14	Fischer, W	A	A	P			
			15	Orphan, V	A	A	P			
			16	Ehlmann, B	A	A	P			
			17	de Kleer, K	A	A	P			
			18	Stock, J	A	A	P			
			Ge 041C	+	Undergraduate Research and Bachelor's Thesis	01	Grotzinger, J	A	A	P
						02	Newman, D	A	A	P
						03	Kirschvink, J	A	A	P
04	Stock, J	A				A	P			
05	Ingersoll, A	A				A	P			
06	Orphan, V	A				A	P			
07	Fischer, W	A				A	P			
08	Jackson, J	A				A	P			
09	Sessions, A	A				A	P			
10	Leadbetter, J	A				A	P			
11	Asimow, P	A				A	P			
12	Rossmann, G	A				A	P			
13	Adkins, J	A				A	P			
14	Lamb, M	A				A	P			
15	Ehlmann, B	A				A	P			
16	Simons, M	A				A	P			
17	Ingersoll, A	A				A	P			
18	Eiler, J	A				A	P			

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<b>GEOLOGY</b>							
Ge 041C	+	Undergraduate Research and Bachelor's Thesis	19	Yung, Y	A	A	P
Ge 103	3-0-6	Introduction to the Solar System <i>Taught concurrently with Ge/Ay 011C</i>	01	Ehlmann, B	TR 13:00 - 14:25	162 SMD	
Ay/Ge 107	1-1-7	Introduction to Astronomical Observation <i>Field Trip: May 5-7 // maximum enrollment; 12 students</i>	01	Hillenbrand, L / de Kleer, K	R 14:30 - 15:55 R 19:00 - 20:55	251 ARM CHL	
Ge 109	+	Oral Presentation <i>Section 1: GPS, maximum enrollment of 8 students // Section 2: Geobiology</i>	01 02 03 04	Tissot, F Sessions, A Fischer, W Kirschvink, J	R 17:15 - 18:15 A A A	151 ARM A A A	P P P P
Ge 111B	0-3-6	Applied Geophysics Seminar and Field Course	01	Clayton, R / Simons, M	W 09:00 - 09:55	162 SMD	G
Ge 115C	0-4-2	Petrography Laboratory	01	Eiler, J	T 11:00 - 11:55 W 13:00 - 15:55	267 ARM 267 ARM	
Ge 120A	1-6-2	Introduction to Field Geology <i>Field Trip 1: April 6-8, Field Trip 2: TBD</i>	01	Bucholz, C	TR 13:00 - 14:25	267 ARM	
Ge 121C	0-9-3	Advanced Field Geology <i>Field Trip: April 17-24 or 25</i>	01	Bucholz, C	OM,M 10:00 - 10:55	267 ARM	G
Ge/ESE 125	3-5-4	Geomorphology	01	Lamb, M	MWF 11:00 - 11:55 F 14:00 - 16:55	251 ARM 311 NMD	
Ge/Ch 127	3-0-6	Nuclear Chemistry	01	Burnett, D	OM,M 15:00 - 15:55	B114F NMD	
Ge 131	3-0-6	Planetary Structure and Evolution	01	Stevenson, D	MWF 10:00 - 10:55	162 SMD	
Ge 136C	1-0-2	Regional Field Geology of the Southwestern United States <i>Field Trip: April 21-24</i>	01	Kirschvink, J	OM,M 15:00 - 15:55	A	P

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<b>GEOLOGY</b>							
Ge/ESE 143	3-2-4	Organic Geochemistry	01	Sessions, A	MWF 11:00 - 11:55	215 NMD	
Ge/ESE 150	3-0-6	Planetary Atmospheres	01	Knutson, H	MWF 14:00 - 14:55	162 SMD	
Ge/EE/ESE 157C	3-3-3	Remote Sensing for Environmental and Geological Applications	011	Ehlmann, B	TR 09:00 - 10:25	162 SMD	
Ge 162	3-0-6	Seismology	01	Zhan, Z	MWF 11:00 - 11:55	162 SMD	
Ge 163	3-0-6	Geodynamics	01	Gurnis, M	MWF 09:00 - 09:55	256 SMD	
Ge 192	0-0-0	Special Topics in the Geological Sciences: Introduction to Labview Programming <b>6 units (1-0-5)</b>	01	Farley, K	M 14:00 - 14:55	267 ARM	
Ay/Ge 198	2-0-4	Special Topics in the Planetary Sciences	01	Mawet, D	M 10:00 - 11:55	219 CHL	
Ge 214	3-0-6	Spectroscopy of Minerals	01	Rossmann, G	MWF 15:00 - 15:55	251 ARM	
Ge 219	2-0-4	Non-traditional Isotopes Seminar <b>class cancelled</b>	01	Tissot, F	A	A	
Ge 264	3-0-6	Machine Learning in Geophysics	01	Ross, Z	MWF 13:00 - 13:55	162 SMD	
ME/Ge/Ae 266B	3-0-6	Fracture and Frictional Faulting	01	Lapusta, N	MW 14:30 - 15:55	115 GTL	
Ge 270	3-0-6	Continental Tectonics	01	Wernicke, B	W 19:00 - 21:55	315 NMD	
Ge 297	+	Advanced Study	01	Adkins, J	A	A	P
			02	Clayton, R	A	A	P
			03	Stock, J	A	A	P
			04	Asimow, P	A	A	P

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<b>GEOLOGY</b>							
Ge 297	+	Advanced Study	05	Blake, G	A	A	P
			06	Brown, M	A	A	P
			07	Grotzinger, J	A	A	P
			08	Eiler, J	A	A	P
			09	Jackson, J	A	A	P
			10	Farley, K	A	A	P
			11	Gurnis, M	A	A	P
			14	Ingersoll, A	A	A	P
			15	Jackson, J	A	A	P
			16	Kirschvink, J	A	A	P
			17	Kulkarni, S	A	A	P
			18	Newman, D	A	A	P
			19	Fischer, W	A	A	P
			20	Bordoni, S	A	A	P
			21	Ehlmann, B	A	A	P
			22	Rossmann, G	A	A	P
			23	Lamb, M	A	A	P
			24	Miller, T	A	A	P
			25	Simons, M	A	A	P
			26	Stevenson, D	A	A	P
			27	Zhan, Z	A	A	P
			28	Stolper, E	A	A	P
			29	Batygin, K	A	A	P
			30	Bucholz, C	A	A	P
			31	Tissot, F	A	A	P
			32	Wernicke, B	A	A	P
			33	Ross, Z	A	A	P
			34	Yung, Y	A	A	P
			35	Wennberg, P	A	A	P
			36	Avouac, J	A	A	P
			37	Aharonson, O	A	A	P
			38	Lapusta, N	A	A	P
			39	Sessions, A	A	A	P

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<b>GEOLOGY</b>							
Ge 297	+	Advanced Study	40	Orphan, V	A	A	P
			42	Tsai, V	A	A	P
			43	Knutson, H	A	A	P
			44	Leadbetter, J	A	A	P
			45	Ross, Z	A	A	P
			46	de Kleer, K	A	A	P
			47	Tejada Lara, J	A	A	P
Ge/ESE 298	+	Mentoring and Outreach <i>meets Mondays 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
			06	Gurnis, M	A	A	P
Ge 299	+	Thesis Research	01	Adkins, J	A	A	P
			02	Batygin, K	A	A	P
			03	Fischer, W	A	A	P
			04	Kirschvink, J	A	A	P
			05	Asimow, P	A	A	P
			06	Blake, G	A	A	P
			07	Brown, M	A	A	P
			08	Clayton, R	A	A	P
			09	Eiler, J	A	A	P
			10	Farley, K	A	A	P
			11	Gurnis, M	A	A	P
			12	Heaton, T	A	A	P
			13	Tissot, F	A	A	P
			14	Schneider, T	A	A	P
			15	Grotzinger, J	A	A	P
			16	Simons, M	A	A	P
			17	Avouac, J	A	A	P
			18	Newman, D	A	A	P
			20	Ehlmann, B	A	A	P
			21	Orphan, V	A	A	P

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<b>GEOLOGY</b>							
Ge 299	+	Thesis Research	22	Fischer, W	A	A	P
			24	Kulkarni, S	A	A	P
			25	Lamb, M	A	A	P
			26	Stevenson, D	A	A	P
			27	Stock, J	A	A	P
			28	Stolper, E	A	A	P
			29	Knutson, H	A	A	P
			30	Bucholz, C	A	A	P
			31	Zhan, Z	A	A	P
			32	Yung, Y	A	A	P
			33	Wernicke, B	A	A	P
			34	Rossman, G	A	A	P
			35	Sessions, A	A	A	P
			36	Lapusta, N	A	A	P
			37	Jackson, J	A	A	P
			38	Ingersoll, A	A	A	P
			39	Bordoni, S	A	A	P
			40	Tsai, V	A	A	P
			41	Leadbetter, J	A	A	P
			42	Ross, Z	A	A	P
			43	de Kleer, K	A	A	P
44	Tejada Lara, J	A	A	P			
<b>HISTORY</b>							
Hum/H 003	3-0-6	The United States in the Twentieth Century <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Thabet, A	TR 09:00 - 10:25	127 BAX	
Hum/H 008	3-0-6	Civilization, Science, and Archaeology: Before Greece: The Origins of Civilization in Mesopotamia <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Buchwald, J	TR 14:30 - 15:55	TR DAB	

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<b>HISTORY</b>							
Hum/H/HPS 015	3-0-6	Waste in the World <i>Attendance at first class meeting is required. // maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Rand, L	T 19:00 - 21:55	127 BAX	
Hum/H/HPS 017	3-0-6	Materials, Methods, and the Molecularization of Life <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Kollmer, C	TR 14:30 - 15:55	100 PWL/BTH	
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	
H 098	+	Reading in History <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P
H 099C	1-0-8	Research Tutorial <i>Instructor permission required prior to registering</i>	01	Dykstra, M	A	A	
H 108	3-0-6	The High Middle Ages <i>maximum enrollment: 25 students</i>	01	Brown, W	MWF 13:00 - 13:55	125 BAX	
HPS/H 157	3-0-6	Models and Theory in Ancient Astronomy: From the Babylonians to the Greeks <i>maximum enrollment: 15 students</i>	01	Rochberg, F	TR 14:30 - 15:55	128 BAX	G
HPS/H 162	3-0-6	Social Studies of Science <i>maximum enrollment: 15 students</i>	01	Feingold, M	T 19:00 - 21:55	TR DAB	
HPS/H 169	3-0-6	Selected Topics in the History of Science and Technology: Air, Wind, Fire, Water: Recent Histories of Climate Change <i>maximum enrollment: 15 students</i>	01	Lewis, D	T 19:00 - 21:55	125 BAX	G
<b>HISTORY AND PHILOSOPHY OF SCIENCE</b>							



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<b>HISTORY AND PHILOSOPHY OF SCIENCE</b>							
Hum/H/HPS 015	3-0-6	Waste in the World <i>Attendance at first class meeting is required. // maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Rand, L	T 19:00 - 21:55	127 BAX	
Hum/H/HPS 017	3-0-6	Materials, Methods, and the Molecularization of Life <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Kollmer, C	TR 14:30 - 15:55	100 PWL/BTH	
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	
HPS098	+	Reading in History and Philosophy of Science	01	Rand, L	A	A	P
HPS/H 157	3-0-6	Models and Theory in Ancient Astronomy: From the Babylonians to the Greeks <i>maximum enrollment: 15 students</i>	01	Rochberg, F	TR 14:30 - 15:55	128 BAX	G
HPS/H 162	3-0-6	Social Studies of Science <i>maximum enrollment: 15 students</i>	01	Feingold, M	T 19:00 - 21:55	TR DAB	
HPS/H 169	3-0-6	Selected Topics in the History of Science and Technology: Air, Wind, Fire, Water: Recent Histories of Climate Change <i>maximum enrollment: 15 students</i>	01	Lewis, D	T 19:00 - 21:55	125 BAX	G
<b>HUMANITIES</b>							
Hum/H 003	3-0-6	The United States in the Twentieth Century <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Thabet, A	TR 09:00 - 10:25	127 BAX	
Hum/H 008	3-0-6	Civilization, Science, and Archaeology: Before Greece: The Origins of Civilization in Mesopotamia <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Buchwald, J	TR 14:30 - 15:55	TR DAB	

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<b>HUMANITIES</b>							
Hum/H/HPS 015	3-0-6	Waste in the World <i>Attendance at first class meeting is required. // maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Rand, L	T 19:00 - 21:55	127 BAX	
Hum/H/HPS 017	3-0-6	Materials, Methods, and the Molecularization of Life <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Kollmer, C	TR 14:30 - 15:55	100 PWL/BTH	
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	
Hum/En 021	3-0-6	Monsters and Marvels <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Jahner, J	TR 09:00 - 10:25	128 BAX	
Hum/En 022	3-0-6	Inequality <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students per section</i>	01 02	Haugen, K Haugen, K	TR 09:00 - 10:25 TR 14:30 - 15:55	B119 BAX B119 BAX	
Hum/En 025	3-0-6	Human Animal <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Holland, J	TR 09:00 - 10:25	125 BAX	
Hum/En 032	3-0-6	Introduction to Black Feminist Poetics <i>Attendance at first class meeting is required. // Maximum enrollment: 10 students</i>	01	Murphy, D	TR 14:30 - 15:55	115 DAB	
Hum/PI 041	3-0-6	Knowledge and Reality <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students per section</i>	01 02	Hitchcock, C Hitchcock, C	TR 09:00 - 10:25 TR 14:30 - 15:55	TR DAB 115 BCK	
Hum/VC 050	3-0-6	Introduction to Film <i>Attendance at first class meeting is required. // maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Jurca, C	TR 14:30 - 15:55	102 SPL	

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<b>HUMANITIES</b>							
Hum/VC 052	3-0-6	The Legacy of the Mexican School <i>Attendance at first class meeting is required. //</i> <i>Maximum enrollment: 15 students</i>	01	Decemvirale, J	T 19:00 - 21:55	B119 BAX	
Hum075	0-0-0	Selected Topics in Humanities: Art in Los Angeles <i>course cancelled</i>	01	Mushkin, H	A	A	
Hum115C	3-0-6	Hispanic Cultures in Film and Literature <i>maximum enrollment: 15 students // taught</i> <i>concurrently with L 115c</i>	01	Garcia, D	MW 09:00 - 09:55 T 12:00 - 12:55	117 DAB 117 DAB	
L/Hum 151	3-0-6	Japanese Literature in Translation from Medieval to Pre-modern <i>Taught by Dr. Hirai // maximum enrollment: 20</i> <i>students</i>	01	Toner, R	TR 16:00 - 17:25	125 BAX	
L/Hum 154	3-0-6	The Modern French Novel in Translation <i>maximum enrollment: 15 students</i>	01	Merrill, T	WF 16:30 - 17:55	115 DAB	
Hum174	3-0-6	Topics in Masterpieces of Chinese Writing <i>maximum enrollment: 15 students // taught</i> <i>concurrently with L 174</i>	01	Wang, P	TR 10:30 - 11:55	127 BAX	
<b>INFORMATION AND DATA SCIENCES</b>							
EE/Ma/CS/IDS 136	3-0-6	Information Theory and Applications	01	Kostina, V	MW 10:30 - 11:55	B280 MRE	
Ma/ACM/IDS 140B	3-0-6	Probability	01	Tamuz, O	MWF 13:00 - 13:55	310 LINDE	
CS/IDS 150B	3-0-6	Probability and Algorithms	01	Schulman, L	TR 10:30 - 11:55	104 ANB	
CS/IDS 153	3-0-6	Current Topics in Theoretical Computer Science	01	Mahadev, U	F 13:00 - 15:55	106 ANB	
IDS/ACM/CS 157	3-2-4	Statistical Inference	01	Zuev, K	TR 09:00 - 10:25	Lecture Hall BAX	

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<b>INFORMATION AND DATA SCIENCES</b>							
CS/CNS/EE/IDS 159	3-0-6	Advanced Topics in Machine Learning	01	Astudillo Marban, R	TR 14:30 - 15:55	134 (Auditorium) BCK	
ACM/EE/IDS 170	3-0-9	Mathematics of Signal Processing	01	Hassibi, B	TR 10:30 - 11:55	213 ANB	G
ACM/IDS 180A	3-0-9	Multiscale Modeling	01	Stuart, A	TR 09:00 - 10:25	213 ANB	G
IDS197	+	Undergraduate Reading in the Information and Data Sciences	01	Zuev, K	A	A	P
IDS198	+	Undergraduate Projects in Information and Data Sciences	01	Murray, R	A	A	P
			02	Low, S	A	A	P
			03	Chandrasekaran, V	A	A	P
			04	Zuev, K	A	A	P
IDS199	+	Undergraduate Thesis in the Information and Data Sciences	01	Perona, P	A	A	P
<b>LANGUAGES</b>							
L 102C	3-0-6	Elementary French <i><a href="http://schedules.caltech.edu/syllabi/L102C_SP22_23.pdf">http://schedules.caltech.edu/syllabi/L102C_SP22_23.pdf</a></i>	01	Orcel, C	MTR 17:00 - 17:55	115 DAB	
L 103C	3-0-6	Intermediate French <i><a href="http://schedules.caltech.edu/syllabi/L103C_SP22_23.pdf">http://schedules.caltech.edu/syllabi/L103C_SP22_23.pdf</a></i>	01	Orcel, C	MWF 13:00 - 13:55	115 DAB	
L 106C	4-0-5	Elementary Japanese <i>maximum enrollment: 20 students per section // Prerequisite: L106b or equivalent</i>	01	Fujio, M	MTWR 15:00 - 15:55	228 BAX	
			02	Fujio, M	MTWR 16:00 - 16:55	228 BAX	
L 107C	3-0-6	Intermediate Japanese <i>Prerequisite: L 106abc or equivalent // Taught by Dr. Hirai // maximum enrollment: 12 students</i>	01	Toner, R	MW 16:00 - 17:25	117 DAB	
L 110C	3-0-6	Elementary Spanish <i>maximum enrollment: 20 students in section 1, 15 students in section 2</i>	01	Arjona, G	MW 16:30 - 17:55	127 BAX	
			02	Garcia, D	MWR 12:00 - 12:55	127 BAX	

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<b>LANGUAGES</b>							
L 112C	3-0-6	Intermediate Spanish <i>maximum enrollment: 20 students</i>	01	Arjona, G	MW 19:00 - 20:25	127 BAX	
L 115C	3-0-6	Hispanic Cultures in Film and Literature <i>maximum enrollment: 15 students // taught concurrently with Hum115c</i>	01	Garcia, D	MW 09:00 - 09:55 T 12:00 - 12:55	117 DAB 117 DAB	
L 130C	3-0-6	Elementary German	01	Aebi, A	MWR 13:00 - 13:55	117 DAB	
L 132C	3-0-6	Intermediate German	01	Aebi, A	MWR 12:00 - 12:55	117 DAB	
L/Hum 151	3-0-6	Japanese Literature in Translation from Medieval to Pre-modern <i>Taught by Dr. Hirai // maximum enrollment: 20 students</i>	01	Toner, R	TR 16:00 - 17:25	125 BAX	
L/Hum 154	3-0-6	The Modern French Novel in Translation <i>maximum enrollment: 15 students</i>	01	Merrill, T	WF 16:30 - 17:55	115 DAB	
L 167	3-0-6	Latin Literature <i>maximum enrollment: 15 students</i>	01	Pigman, G	TR 13:00 - 14:25	Loggia DAB	
L 170C	3-0-6	Introduction to Chinese <i>maximum enrollment: 15 students // Lecture tentatively planned for MWTH 12-12:55p</i>	01	Wang, P	MWR 12:00 - 12:55	125 BAX	
L 172C	3-0-6	Intermediate Chinese <i>maximum enrollment: 15 students</i>	01	Zhu, J	MW 10:30 - 11:55	115 DAB	
L 174	3-0-6	Topics in Masterpieces of Chinese Writing <i>maximum enrollment: 5 students // taught concurrently with Hum 174</i>	01	Wang, P	TR 10:30 - 11:55	127 BAX	
L 175	3-0-3	French Conversation <a href="http://schedules.caltech.edu/syllabi/L175_SP2223.pdf">http://schedules.caltech.edu/syllabi/L175_SP2223.pdf</a>	01	Orcel, C	TR 09:00 - 10:25	115 DAB	P
L 176	3-0-6	Chinese Conversation <i>maximum enrollment: 15 students</i>	01	Zhu, J	MW 09:00 - 10:25	115 DAB	

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<b>MATERIALS SCIENCE</b>							
MS 078C	+	Senior Thesis	01	Gharib, M	A	A	P
			02	Johnson, W	A	A	P
			03	Ravichandran, G	A	A	P
			04	Greer, J	A	A	P
			05	Goddard, W	A	A	P
			06	Minnich, A	A	A	P
			07	Fultz, B	A	A	P
			08	Faber, K	A	A	P
			09	Daraio, C	A	A	P
			10	Falson, J	A	A	P
			11	Atwater, H	A	A	P
			12	See, K	A	A	P
			13	Gao, W	A	A	P
MS 090	1-6-2	Materials Science Laboratory	01	Hofmann, D	M 12:00 - 12:55	104 WAT	
MS 100	+	Advanced Work in Materials Science	01	Minnich, A	A	A	P
			02	Fultz, B	A	A	P
			03	Lewis, N	A	A	P
			04	Davis, M	A	A	P
			05	Johnson, W	A	A	P
			06	Greer, J	A	A	P
			07	Faber, K	A	A	P
			08	Falson, J	A	A	P
			09	Gao, W	A	A	P
			10	Atwater, H	A	A	P
			11	Rossmann, G	A	A	P
			12	See, K	A	A	P
APh/MS 105C	3-0-6	States of Matter	01	Falson, J	TR 09:00 - 10:25	104 WAT	
MS 110C	1-0-0	Materials Research Lectures	01	Nad Perge, S	W 16:00 - 16:55	147 NYS	P

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<b>MATERIALS SCIENCE</b>							
MS 133	3-0-6	Kinetic Processes in Materials	01	Faber, K / Kornfield, J	TR 10:30 - 11:55	104 WAT	
APh/MS 141	3-0-6	Introduction to Computational Methods for Science and Engineering	01	Bernardi, M	MWF 13:00 - 13:55	104 WAT	
MS/ME 161	3-0-6	Imperfections in Crystals <i>class cancelled</i>	01	Greer, J	A	A	
MS 200	+	Advanced Work in Materials Science	01	Johnson, W	A	A	P
			02	Goddard, W	A	A	P
			03	Blake, G	A	A	P
			04	Fultz, B	A	A	P
			05	Daraio, C	A	A	P
			06	Heath, J	A	A	P
			07	Bhattacharya, K	A	A	P
			08	Lewis, N	A	A	P
			09	Yeh, N	A	A	P
			10	Atwater, H	A	A	P
			11	Ahn, C	A	A	P
			12	Greer, J	A	A	P
			13	Minnich, A	A	A	P
			14	Bernardi, M	A	A	P
			15	Ortiz, M	A	A	P
			16	Kochmann, D	A	A	P
			17	Faber, K	A	A	P
			18	Cushing, S	A	A	P
			19	See, K	A	A	P
			20	Kornfield, J	A	A	P
			21	Falson, J	A	A	P
			22	Gao, W	A	A	P
			23	Faraon, A	A	A	P
			24	Manthiram, K	A	A	P
ME/MS/AM 221	3-0-6	Effective properties of heterogenous and meta-materials	01	Bhattacharya, K	TR 13:00 - 14:25	115 GTL	G

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<b>MATERIALS SCIENCE</b>							
MS 300	+	Thesis Research	01	Johnson, W	A	A	P
			02	Faber, K	A	A	P
			03	Atwater, H	A	A	P
			04	Goddard, W	A	A	P
			05	Fultz, B	A	A	P
			06	Greer, J	A	A	P
			07	See, K	A	A	P
			08	Lewis, N	A	A	P
			09	Bhattacharya, K	A	A	P
			10	Rosakis, A	A	A	P
			11	Minnich, A	A	A	P
			12	Snyder, G	A	A	P
			13	Bernardi, M	A	A	P
			14	Ortiz, M	A	A	P
			15	Falson, J	A	A	P
			16	Cross, M	A	A	P
			18	Gao, W	A	A	P
			19	Cushing, S	A	A	P
			20	Manthiram, K	A	A	P
			21	Faraon, A	A	A	P
			<b>MATHEMATICS</b>				
Ma 001C	4-0-5	Calculus of One and Several Variables and Linear Algebra <i>Practical Track: Section 1-6, 10-11 //</i> <i>Analytical Track: Sections 7-8</i>	01	Flach, M	MWF 10:00 - 10:55 R 09:00 - 09:55	119 KRK 269 LAU	G
			02	Flach, M	MWF 10:00 - 10:55 R 10:00 - 10:55	119 KRK B111 DWN	G
			03	Flach, M	MWF 10:00 - 10:55 R 13:00 - 13:55	119 KRK B111 DWN	G
			04	Flach, M	MWF 10:00 - 10:55 R 14:00 - 14:55	119 KRK Hameetman Aud CHL	G
			05	Flach, M	MWF 10:00 - 10:55 R 18:00 - 18:55	119 KRK 269 LAU	G
			06	Flach, M	MWF 10:00 - 10:55	119 KRK	G



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<b>MATHEMATICS</b>							
Ma 001C	4-0-5	Calculus of One and Several Variables and Linear Algebra <i>Practical Track: Section 1-6, 10-11 // Analytical Track: Sections 7-8</i>	06	Flach, M	R 19:00 - 19:55	310 LINDE	G
			07	Yu, T	MWF 10:00 - 10:55	310 LINDE	G
					R 10:00 - 10:55	310 LINDE	
			08	Yu, T	MWF 10:00 - 10:55	310 LINDE	G
					R 16:00 - 16:55	Hameetman Aud CHL	
			09	Yu, T	A	A	G
			10	Flach, M	MWF 10:00 - 10:55	119 KRK	G
					R 18:00 - 18:55	387 LINDE	
			11	Flach, M	MWF 10:00 - 10:55	119 KRK	G
					R 13:00 - 13:55	387 LINDE	
Ma 004	3-0-6	Introduction to Mathematical Chaos <i>taught concurrently with Ma 104</i>	01	Vigneaux Ariztia, J	TR 10:30 - 11:55	387 LINDE	
Ma 005C	3-0-6	Introduction to Abstract Algebra <i>taught concurrently with Ma 105c</i>	01	Oswal, A	MWF 09:00 - 09:55	310 LINDE	
Ma/CS 006C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma 106c</i>	01	Kechris, A	TR 13:00 - 14:25	310 LINDE	
Ma 007	3-0-6	Number Theory for Beginners <i>taught concurrently with Ma 107</i>	01	Szumowicz, A	TR 10:30 - 11:55	187 LINDE	
Ma 011	0-0-3	Mathematical Writing <i>class is taught as individually scheduled meetings after the OM</i>	01	Conlon, D	OM,A	A	
Ma 092C	+	Senior Thesis	01	Mantovan, E	A	A	P
			02	Kechris, A	A	A	P
			03	Marcolli, M	A	A	P
			04	Burungale, A	A	A	P
			05	Zhu, X	A	A	P
			06	Burungale, A	A	A	P
			07	Katz, N	A	A	P
			08	Song, A	A	A	P
			09	Tamuz, O	A	A	P
			10	Yu, T	A	A	P

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<b>MATHEMATICS</b>							
Ma 097	+	Research in Mathematics	01	Ni, Y	A	A	P
			02	Burungale, A	A	A	P
			03	Mantovan, E	A	A	P
			04	Tamuz, O	A	A	P
			05	Vigneaux Ariztia, J	A	A	P
			06	Marcolli, M	A	A	P
			07	Yu, T	A	A	P
Ma 098	+	Independent Reading <i>Faculty permission required to register for course.</i>	01	Graber, T	A	A	P
			02	Katz, N	A	A	P
			03	Mazel-Gee, A	A	A	P
			04	Chen, L	A	A	P
			05	Smillie, P	A	A	P
			06	Vidnyanszky, Z	A	A	P
			07	Vigneaux Ariztia, J	A	A	P
			08	Schroeder, P	A	A	P
Ma 104	3-0-6	Introduction to Mathematical Chaos <i>taught concurrently with Ma 4</i>	01	Vigneaux Ariztia, J	TR 10:30 - 11:55	387 LINDE	
Ma 105C	3-0-6	Introduction to Abstract Algebra <i>taught concurrently with Ma 5c</i>	01	Oswal, A	MWF 09:00 - 09:55	310 LINDE	
Ma/CS 106C	3-0-6	Introduction to Discrete Mathematics <i>taught concurrently with Ma/CS 006c</i>	01	Kechris, A	TR 13:00 - 14:25	310 LINDE	
Ma 107	3-0-6	Number Theory for Beginners <i>taught concurrently with Ma 7</i>	01	Szumowicz, A	TR 10:30 - 11:55	187 LINDE	
Ma 108C	3-0-6	Classical Analysis	01	Russkikh, M	MWF 11:00 - 11:55	387 LINDE	
Ma 109C	3-0-6	Introduction to Geometry and Topology	01	Ni, Y	MWF 10:00 - 10:55	387 LINDE	
Ma 110C	3-0-6	Analysis, I	01	Isett, P	MWF 14:00 - 14:55	187 LINDE	

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<b>MATHEMATICS</b>							
Ma 111C	3-0-6	Topics in Analysis	01	Angelopoulos, I	TR 10:30 - 11:55	255 LINDE	
Ma/CS 117C	3-0-6	Computability Theory	01	Ervin, G	TR 13:00 - 14:25	187 LINDE	
Ma 120C	3-0-6	Abstract Algebra	01	Flach, M	MWF 09:00 - 09:55	387 LINDE	
Ma 125	3-0-6	Algebraic Curves	01	Buelles, T	TR 10:30 - 11:55	183 LINDE	
Ma 128	3-0-6	Homological Algebra	01	Mazel-Gee, A	MWF 13:00 - 13:55	255 LINDE	
Ma 130C	3-0-6	Algebraic Geometry	01	Rains, E	MWF 13:00 - 13:55	187 LINDE	
EE/Ma/CS/IDS 136	3-0-6	Information Theory and Applications	01	Kostina, V	MW 10:30 - 11:55	B280 MRE	
Ma/ACM/IDS 140B	3-0-6	Probability	01	Tamuz, O	MWF 13:00 - 13:55	310 LINDE	
Ma 151C	3-0-6	Algebraic and Differential Topology	01	Mazel-Gee, A	MWF 10:00 - 10:55	187 LINDE	
Ma 157B	3-0-6	Riemannian Geometry	01	Song, A	MWF 13:00 - 13:55	387 LINDE	
Ma 162A	3-0-6	Topics in Number Theory	01	Dunn, A	MWF 14:00 - 14:55	255 LINDE	
Ma 191C	3-0-6	Selected Topics in Mathematics <i>Sec 1: Advanced Methods in Combinatorics / Sec 2: Spectral Theory</i>	01	Schuelke, B	TR 10:30 - 11:55	289 LINDE	P
			02	Isett, P	TR 13:00 - 14:25	255 LINDE	P
Ma 290	+	Reading <i>Faculty permission required to register for course.</i>	01	Conlon, D	A	A	P
			02	Flach, M	A	A	P
			03	Hutcherof, T	A	A	P
			04	Graber, T	A	A	P

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<b>MATHEMATICS</b>							
Ma 290	+	Reading <i>Faculty permission required to register for course.</i>	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	Staff	A	A	P
			17	Zhu, X	A	A	P
			18	Gukov, S	A	A	P
			19	Kapustin, A	A	A	P
			20	Kapustin, A	A	A	P
			21	Kitaev, A	A	A	P
			22	Tamuz, O	A	A	P
23	Cvitanic, J	A	A	P			
24	Owhadi, H	A	A	P			
26	Burungale, A	A	A	P			
Ma 390	+	Research <i>Faculty permission required to register for research.</i>	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
			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

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<b>MATHEMATICS</b>							
Ma 390	+	Research <i>Faculty permission required to register for research.</i>	15	Ramakrishnan, D	A	A	P
			16	Staff	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	Yu, T	A	A	P
<b>MECHANICAL ENGINEERING</b>							
ME 011C	3-0-6	Thermal Science	01	Fu, X	MWF 14:00 - 14:55	135 GTL	G
ME 012C	3-0-6	Mechanics	01	Asimaki, D	TR 13:00 - 14:25	135 GTL	G
ME 014	3-5-1	Design and Fabrication <i>Limited to ME or Ae students // Not open to freshmen</i>	01	Koch, J / Mello, M / Stovall, P	TR 14:30 - 15:55	135 GTL	G
ME 023	0-4-0	CNC Machining <i>Open by application only // apply at <a href="https://registrar.caltech.edu/ME23-123SP2023">https://registrar.caltech.edu/ME23-123SP2023</a></i>	01	Stovall, P	OM,R 15:00 - 15:55	B224 SPL	P
ME 050B	0-6-3	Experiments and Modeling in Mechanical Engineering	01	Mello, M	MWF 11:00 - 11:55	135 GTL	G
ME 090C	0-9-0	Senior Thesis, Experimental	01	Ames, A	A	A	G
ME 100	+	Independent Studies in Mechanical Engineering	01	Kochmann, D	A	A	P
			02	Hunt, M	A	A	P
			03	Burdick, J	A	A	P
			04	Blanquart, G	A	A	P

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<b>MECHANICAL ENGINEERING</b>										
ME 100	+	Independent Studies in Mechanical Engineering	05	Minnich, A	A	A	P			
			06	Scherer, A	A	A	P			
			07	Colonus, T	A	A	P			
			08	Murray, R	A	A	P			
			09	Mawet, D	A	A	P			
			10	Perona, P	A	A	P			
			11	Doyle, J	A	A	P			
			12	Daraio, C	A	A	P			
			13	Ames, A	A	A	P			
			14	Mello, M	A	A	P			
			15	McKeon, B	A	A	P			
			16	Fu, X	A	A	P			
			17	Dabiri, J	A	A	P			
			18	Greer, J	A	A	P			
			Ae/APh/CE/ME 101C	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	133 GUG	P
			Ae/AM/CE/ME 102C	3-0-6	Mechanics of Structures and Solids	01	Pellegrino, S	TR 09:00 - 10:25	133 GUG	G
			ME 110	+	Special Laboratory Work in Mechanical Engineering	01	Murray, R	A	A	P
						02	Burdick, J	A	A	P
03	Ames, A	A				A	P			
05	Ravichandran, G	A				A	P			
06	Shepherd, J	A				A	P			
07	Scherer, A	A				A	P			
Ae/ME 120	3-0-6	Combustion Fundamentals	01	Blanquart, G	MWF 09:00 - 09:55	135 GTL				
ME 123	0-4-0	CNC Machining <i>Open by application only // Apply at <a href="https://registrar.caltech.edu/ME23-123SP2023">https://registrar.caltech.edu/ME23-123SP2023</a></i>	01	Stovall, P	OM,R 15:00 - 15:55	B224 SPL	P			
ME/CS/EE 129	1-7-1	Experimental Robotics	01	Niemeyer, G	MWF 13:00 - 13:55	135 GTL				

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<b>MECHANICAL ENGINEERING</b>							
AM/CE/ME 150C	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	R 11:00 - 11:55	135 GTL	P
MS/ME 161	3-0-6	Imperfections in Crystals <i>class cancelled</i>	01	Greer, J	A	A	
ME/CS/EE 169	1-7-1	Mobile Robots	01	Niemeyer, G	MWF 15:00 - 15:55	135 GTL	
ME 200	+	Advanced Work in Mechanical Engineering	01	Lapusta, N	A	A	P
			02	Ravichandran, G	A	A	P
			03	Burdick, J	A	A	P
			05	Bhattacharya, K	A	A	P
ME/MS/AM 221	3-0-6	Effective properties of heterogenous and meta-materials	01	Bhattacharya, K	TR 13:00 - 14:25	115 GTL	G
ME/CDS/EE 234B	3-3-3	Advanced Robotics: Planning	01	Burdick, J	MWF 14:00 - 14:55	232 GUG	
ME/Ge/Ae 266B	3-0-6	Fracture and Frictional Faulting	01	Lapusta, N	MW 14:30 - 15:55	115 GTL	
ME 300	+	Research in Mechanical Engineering	01	Ames, A	A	A	P
			02	Bellan, P	A	A	P
			03	Bhattacharya, K	A	A	P
			04	Burdick, J	A	A	P
			05	Colonus, T	A	A	P
			06	Adkins, J	A	A	P
			07	Gharib, M	A	A	P
			08	Kochmann, D	A	A	P
			09	Stuart, A	A	A	P
			10	Hunt, M	A	A	P
			11	Lapusta, N	A	A	P
			12	Leonard, A	A	A	P
			13	Murray, R	A	A	P
			14	Ortiz, M	A	A	P
			15	Shepherd, J	A	A	P

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<b>MECHANICAL ENGINEERING</b>							
ME 300	+	Research in Mechanical Engineering	16	Avouac, J	A	A	P
			17	Brady, J	A	A	P
			18	Scherer, A	A	A	P
			19	Trojan, S	A	A	P
			20	Greer, J	A	A	P
			21	Daraio, C	A	A	P
			22	Dickinson, M	A	A	P
			23	Ravichandran, G	A	A	P
			24	Atwater, H	A	A	P
			25	Fultz, B	A	A	P
			26	Blanquart, G	A	A	P
			27	Andrade, J	A	A	P
			28	McKeon, B	A	A	P
			29	Hoffmann, M	A	A	P
			30	Asimaki, D	A	A	P
			31	Minnich, A	A	A	P
			32	Lewis, N	A	A	P
			33	Schneider, T	A	A	P
			34	Pachter, L	A	A	P
			35	Rosakis, A	A	A	P
36	Dabiri, J	A	A	P			
37	Chung, S	A	A	P			
38	Ismagilov, R	A	A	P			
39	Fu, X	A	A	P			
40	Bae, H	A	A	P			
<b>MEDICAL ENGINEERING</b>							
MedE 099	+	Undergraduate Research in Medical Engineering	01	Gao, W	A	A	P
			02	Shapiro, M	A	A	P
			03	Wang, L	A	A	P
MedE 100C	1-0-0	Medical Engineering Seminar	01	Tai, Y / Gao, W	R 16:00 - 16:55	105 ANB	P



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<b>MEDICAL ENGINEERING</b>							
EE/MedE 114B	4-0-8	Analog Circuit Design	01	Hajimiri, S	TR 09:00 - 10:55	B270 MRE	
EE/CS/MedE 125	3-6-0	Digital Circuit Design with FPGAs and VHDL <i>OM will be held on Tuesday, April 11th at 4pm // first class on Wednesday, April 12th</i>	01	Pedroni, V	OM,T 16:00 - 16:55 W 14:30 - 15:55	B280 MRE B280 MRE	G
EE/CS/MedE 175	3-6-0	Advanced Topics in Digital Design with FPGAs and VHDL <i>class cancelled</i>	01	Pedroni, V	A	A	G
BE/EE/MedE 189A	3-6-3	Design and Construction of Biodevices <i>maximum enrollment: 20 students // contact instructor if class is full // Enrollment is limited based on laboratory capacity</i>	01	Yang, C	TR 14:30 - 15:55	B127 KRK	
BE/EE/MedE 189B	0-9-0	Design and Construction of Biodevices	01	Yang, C	TR 14:30 - 15:55	B127 KRK	
MedE 205	2-0-4	New Frontiers in Medical Technologies <i>class cancelled</i>	01	Nikzad, S	A	A	P
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
			13	Pickar, 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

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<b>MEDICAL ENGINEERING</b>							
MedE 291	+	Research in Medical Engineering	19	Gradinaru, V	A	A	P
			20	Daraio, C	A	A	P
			21	Kornfield, J	A	A	P
			22	Pachter, L	A	A	P
			23	Thomson, M	A	A	P
<b>MUSIC</b>							
Mu 137	3-0-6	Themes in Western Music History and Historiography: Pre-1600 <i>maximum enrollment: 15 students</i>	01	Lu, B	MW 11:00 - 12:25	B133 BAX	
Mu 150	3-0-6	Special Topics in Music: The End of Opera? <i>maximum enrollment: 15 students</i>	01	Lu, B	MW 14:00 - 15:25	B133 BAX	
<b>NEUROBIOLOGY</b>							
NB/Bi/CNS 150	4-0-6	Introduction to Neuroscience	01	Adolphs, R / Lester, H	R 14:00 - 14:55 MWF 10:00 - 10:55	101 KRK 130 CNRB	G
			02	Lester, H / Adolphs, R	MWF 10:00 - 10:55 R 11:00 - 11:55	130 CNRB 152 BRN	G
			03	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 20:00 - 20:55	130 CNRB 101 KRK	G
			04	Adolphs, R / Lester, H	MWF 10:00 - 10:55 R 19:00 - 19:55	130 CNRB 101 KRK	G
CNS/Bi/Psy/NB 176	4-0-5	Cognition <i>class will meet in KRK 101 on 4/10/23 and 4/19/23</i>	01	Shimojo, S	MW 14:00 - 15:55	130 CNRB	
CNS/Bi/Ph/CS/NB 187	3-0-6	Neural Computation	01	Meister, M / Rutishauser, U	TR 10:30 - 11:55	B180 BBB	
Bi/CNS/BE/NB 230	3-2-4	Optogenetic and CLARITY Methods in Experimental Neuroscience	01	Gradinaru, V	WR 13:00 - 14:55	340A CNRB	
Bi/BE/CNS/NB 241	1-8-0	Spatial Genomics <i>maximum enrollment: 6 students</i>	01	Cai, L	M 11:00 - 11:55	B115 CNRB	

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<b>NEUROBIOLOGY</b>							
NB/Bi/CNS 250C	3-0-6	Topics in Systems Neuroscience	01	Siapas, A	W 14:00 - 16:55	100 CNRB	
NB 299	+	Graduate Research	01	Adolphs, R	A	A	P
			02	Allman, J	A	A	P
			03	Andersen, R	A	A	P
			04	Anderson, D	A	A	P
			05	Bronner Hansen, M	A	A	P
			06	Dickinson, M	A	A	P
			07	Gradinaru, V	A	A	P
			08	Hong, E	A	A	P
			09	Kennedy, M	A	A	P
			10	Lester, H	A	A	P
			11	Lois, C	A	A	P
			12	Meister, M	A	A	P
			13	Oka, Y	A	A	P
			14	Prober, D	A	A	P
			15	Roukes, M	A	A	P
			16	Shapiro, M	A	A	P
			17	Shimojo, S	A	A	P
			18	Siapas, A	A	A	P
			19	Sternberg, P	A	A	P
			20	Tsao, D	A	A	P
			21	Wagenaar, D	A	A	P
			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
<b>PERFORMING AND VISUAL ARTS</b>							
PVA030C	0-3-0	Guitar	01	Elgart, M	T 16:30 - 17:25	Fr Rehearsal Hall HAM	P
		<i>Sec 1: Beginning Guitar / Sec 2: Intermediate Guitar / Sec 3: Advanced Guitar</i>	02	Elgart, M	T 15:30 - 16:25	Fr Rehearsal Hall HAM	P

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<b>PERFORMING AND VISUAL ARTS</b>							
PVA030C	0-3-0	Guitar <i>Sec 1: Beginning Guitar / Sec 2: Intermediate Guitar / Sec 3: Advanced Guitar</i>	03	Elgart, M	T 17:30 - 18:25	Fr Rehearsal Hall HAM	P
PVA031C	0-3-0	Chamber Music <i>Sec 1: Mixed Ensembles // Sec 2: Piano Four-Hands // Sec 3: Guitar Ensemble</i>	01	Jasper White, M	OM,A	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
PVA032C	0-3-0	Symphony Orchestra	01	Price, G	T 19:30 - 22:15	Fr Rehearsal Hall HAM	P
PVA033C	0-3-0	Wind Orchestra	01	Price, G	R 19:30 - 21:45	Fr Rehearsal Hall HAM	P
PVA034C	0-3-0	Jazz Band/Jazz Improvisation	01	Catlin, B	W 19:15 - 20:55	Fr Rehearsal Hall HAM	P
					W 21:15 - 22:45	Fr Rehearsal Hall HAM	
PVA035C	0-3-0	Glee Club	01	Sulahian, N	M 19:00 - 20:25	Fr Rehearsal Hall HAM	P
					W 17:05 - 18:35	Fr Rehearsal Hall HAM	
PVA037C	0-3-0	Chamber Singers	01	Sulahian, N	M 20:40 - 21:55	Fr Rehearsal Hall HAM	P
PVA040C	2-0-1	Theater Arts Production	01	Brophy, B	W 19:00 - 20:25	Ramo Auditorium BAX	P
PVA041C	2-0-1	Storytelling for Scientists	01	Brophy, B	W 19:00 - 20:25	Ramo Auditorium BAX	P
PVA042C	2-0-1	Improvisation for Scientists	01	Brophy, B	W 20:30 - 21:55	Ramo Auditorium BAX	P
PVA061C	0-3-0	Silkscreen and Silk Painting <i>max enrollment: 16 students</i>	01	Barry, J	M 19:00 - 21:55	Garage TCT	P
PVA062C	0-3-0	Drawing and Painting <i>maximum enrollment: 18 students per section</i>	01	Barry, J	T 19:00 - 21:55	Garage TCT	P
			02	Barry, J	W 19:00 - 21:55	Garage TCT	P

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<b>PERFORMING AND VISUAL ARTS</b>							
PVA063C	0-3-0	Ceramics <i>maximum enrollment: 10 students</i>	01	Plunkett, L	R 19:00 - 21:55	POLY	P
<b>PHILOSOPHY</b>							
Hum/PI 041	3-0-6	Knowledge and Reality <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students per section</i>	01 02	Hitchcock, C Hitchcock, C	TR 09:00 - 10:25 TR 14:30 - 15:55	TR DAB 115 BCK	
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
<b>PHYSICAL EDUCATION</b>							
PE 001	3-0-0	Wellness <i>maximum enrollment: 20 students</i>	01	Morgan, H	MW 09:00 - 10:25	BAC	P
PE 002	3-0-0	Student Designed Fitness <i>may only be taken once // maximum enrollment: 18 students</i>	01	Clark, J	TR 09:00 - 10:25	BAC	P
PE 003	3-0-0	Hiking <i>may only be taken once // maximum enrollment: 20 students</i>	01	Brabson, A	F 09:00 - 12:55	BAC	P
PE 006	3-0-0	Core Training, Beginning/Intermediate <i>maximum enrollment: 18 students</i>	01	Meyring, B	MW 13:00 - 14:25	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
PE 014	3-0-0	Basketball Skills, Beginning/Intermediate <i>maximum enrollment: 20 students</i>	01	Tarakchian, A	MW 10:00 - 11:25	BAC	P
PE 024	3-0-0	Yoga, Beginning <i>maximum enrollment: 18 students per section</i>	01 02	Chiang, N Chiang, N	MW 11:00 - 12:25 TR 10:30 - 11:55	BAC BAC	P P

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<b>PHYSICAL EDUCATION</b>							
PE 027	3-0-0	Ultimate Frisbee <i>maximum enrollment: 18 students</i>	01	Jordan, J	MW 13:00 - 14:25	BAC	P
PE 029	3-0-0	Outdoor Lawn Games <i>maximum enrollment: 20 students</i>	01	Gray, E	MW 09:00 - 10:25	BAC	P
PE 033	3-0-0	Beginning Triathlon Training <i>maximum enrollment: 16 students</i>	01	Morgan, H	MW 11:00 - 12:25	BAC	P
PE 036	3-0-0	Swimming, Beginning/Intermediate <i>maximum enrollment: 16 students</i>	01	Brabson, A	TR 13:00 - 14:25	BAC	P
PE 060	3-0-0	Tennis, Beginning and Intermediate <i>maximum enrollment: 8 students</i>	01	Eslinger, O	TR 09:00 - 10:25	BAC	P
PE 070	3-0-0	Weight Training, Beginning/Intermediate <i>Intermediate, max enrollment: 16 students</i>	01	Gillis, D	TR 10:30 - 11:55	BAC	P
PE 081	3-0-0	Bouldering <i>may not be repeated // 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>may not be repeated // maximum enrollment: 12 students</i>	01	Herbison, J	TR 14:30 - 15:55	BAC	P
PE 084	3-0-0	Table Tennis, Beginning, Intermediate, and Advanced <i>maximum enrollment: 12 students</i>	01	Whitehead, K	MW 10:00 - 11:25	BAC	P
PE 085B	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 090C	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
PE 093B	3-0-0	Intercollegiate Baseball Team <i>Open to NCAA eligible students only</i>	01	Whitehead, K	MTWRFS 16:00 - 17:55	BAC	P

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<b>PHYSICAL EDUCATION</b>							
PE 095B	3-0-0	Intercollegiate Tennis Teams <i>Open to NCAA eligible students only // men and women</i>	01	Brisotti, M / Weintraub, B	MTWRFS 16:00 - 17:55	BAC	P
<b>PHYSICS</b>							
Ph 001C	4-0-5	Classical Mechanics and Electromagnetism <i>Sections 1-5 Practical Track // Sections 6-10 Analytical Track</i>	01	Refael, G	WF 15:00 - 15:55	201 BRG	
					MR 11:00 - 11:55	310 LINDE	
			02	Refael, G	WF 15:00 - 15:55	201 BRG	
					MR 15:00 - 15:55	102 STL	
			03	Refael, G	WF 15:00 - 15:55	201 BRG	
					M 15:00 - 15:55	Hameetman Aud CHL	
					R 11:00 - 11:00	Hameetman Aud CHL	
			04	Refael, G	WF 15:00 - 15:55	201 BRG	
					MR 15:00 - 15:55	B111 DWN	
					MR 11:00 - 11:55	B111 DWN	
		MR 15:00 - 15:55	255 LINDE				
		MR 11:00 - 11:55	119 KRK				
		MR 16:00 - 16:55	269 LAU				
		MR 11:00 - 11:55	102 STL				
		MR 11:00 - 11:55	201 BRG				
		MR 15:00 - 15:55	107 DWN				
Ph 002C	4-0-5	Waves, Quantum Mechanics, and Statistical Physics <i>Maximum enrollment: 35 students per section</i>	01	Filippone, B	TR 11:00 - 11:55	201 BRG	
					WF 11:00 - 11:55	107 DWN	
			02	Filippone, B	TR 11:00 - 11:55	201 BRG	
					WF 13:00 - 13:55	269 LAU	
		TR 11:00 - 11:55	201 BRG				
		WF 15:00 - 15:55	107 DWN				

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<b>PHYSICS</b>							
Ph 002C	4-0-5	Waves, Quantum Mechanics, and Statistical Physics <i>Maximum enrollment: 35 students per section</i>	04	Filippone, B	TR 11:00 - 11:55 WF 13:00 - 13:55	201 BRG 107 DWN	
Ph 003	0-3-3	Introductory Physics Laboratory <i>Maximum enrollment: 24 students per section</i>	01	Black, E / Libbrecht, K	OM,M 14:00 - 14:55 W 13:00 - 15:55	308 BRG 308 BRG	
			02	Black, E / Libbrecht, K	OM,M 14:00 - 14:55 R 13:00 - 15:55	308 BRG 308 BRG	
			03	Black, E / Libbrecht, K	OM,M 14:00 - 14:55 F 13:00 - 15:55	308 BRG 308 BRG	
Ph 007	0-9-0	Physics Laboratory	01	Rice, F / Politzer, H	OM,T 16:00 - 16:55	A	
Ph 008C	0-3-0	Experiments in Electromagnetism	01	Spiropulu, M	A	A	P
FS/Ph 011C	2-0-4	First-Year Seminar: Beyond Physics	01	Phillips, R	A	A	P
Ph 012C	4-0-5	Waves, Quantum Physics, and Statistical Mechanics	01	Patterson, R	TR 10:30 - 11:55	269 LAU	G
Ph 021	0-6-0	Computational Physics Laboratory II <i>meets M 1-4pm in 257 LAU, WF 1-4pm in Linde 289</i>	01	Mach, C / Weinstein, A	OM,M 15:00 - 15:55	255 LINDE	P
Ph 022	0-6-0	Computational Physics Laboratory III <i>meets M 1-4pm in 257 LAU, WF 1-4pm in Linde 289</i>	01	Mach, C / Weinstein, A	OM,M 15:00 - 15:55	255 LINDE	P
Ph 077A	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,M 15:00 - 15:55	210 BRG	
Ph 077B	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,M 15:00 - 15:55	210 BRG	
Ph 077C	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,M 15:00 - 15:55	210 BRG	



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<b>PHYSICS</b>							
Ph 078C	9-0-0	Senior Thesis (Experiment)	01	Libbrecht, K	A	A	G
Ph 079C	+	Senior Thesis (Theory)	01	Libbrecht, K	A	A	P
Ph 101	3-0-6	Order-of-Magnitude Physics	01	Phinney, E	MW 13:00 - 14:25	201 BRG	
Ph 106C	4-0-5	Topics in Classical Physics	01	Golwala, S	TR 10:30 - 11:55	107 DWN	
APh/Ph 112B	3-0-6	Noise and Stochastic Resonance	01	Troian, S	TR 14:30 - 15:55	111 KCK	
Ph/APh/EE/BE 118B	3-0-6	Physics of Measurement <i>class cancelled</i>	01	Roukes, M	A	A	P
Ph 121C	0-6-0	Computational Physics Lab	01	Motrunich, O	TR 10:30 - 11:25 OM,T 10:30 - 11:25	108 BRG 103 DWN	P
Ph 125C	4-0-5	Quantum Mechanics	01	Chen, Y	MWF 10:00 - 10:55	107 DWN	P
Ph 136C	3-0-6	Applications of Classical Physics	01	Teukolsky, S	TR 13:00 - 14:25	269 LAU	
APh/Ph 138A	3-0-6	Quantum Hardware and Techniques	01	Faraon, A / Endres, M / Nad Perge, S / McCuller, L	TR 14:30 - 15:55	142 KCK	P
Ph 171	+	Reading and Independent Study	01	Adhikari, R	A	A	P
			02	Alicea, J	A	A	P
			03	Atwater, H	A	A	P
			04	Bernardi, M	A	A	P
			05	Bock, J	A	A	P
			06	Guadalupe Dos Santos Lins Brandao, F	A	A	P
			07	Zurek, K	A	A	P
			08	Chen, X	A	A	P

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<b>PHYSICS</b>							
Ph 171	+	Reading and Independent Study	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
			40	Prince, T	A	A	P
			41	Refael, G	A	A	P

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<b>PHYSICS</b>							
Ph 171	+	Reading and Independent Study	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	Trojan, S	A	A	P
			52	Weinstein, A	A	A	P
			53	Wise, M	A	A	P
			54	Yeh, N	A	A	P
			55	Yue, Y	A	A	P
			56	Zmuidzinas, J	A	A	P
			57	Rice, F	A	A	P
			58	McCuller, L	A	A	P
			59	Ghaffari, A	A	A	P
			Ph 172	+	Research in Physics	01	Adhikari, R
02	Atwater, H	A				A	P
03	Bock, J	A				A	P
04	Eisenstein, J	A				A	P
05	Endres, M	A				A	P
06	Filippone, B	A				A	P
07	Golwala, S	A				A	P
08	Harrison, F	A				A	P
09	Hitlin, D	A				A	P
10	Hsieh, D	A				A	P
11	Hunt, M	A				A	P
12	Hutzler, N	A				A	P
13	Kimble, H	A				A	P
14	Kirby, E	A				A	P
15	Knutson, H	A				A	P

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<b>PHYSICS</b>							
Ph 172	+	Research in Physics	16	Libbrecht, K	A	A	P
			17	Martin, C	A	A	P
			18	Mawet, D	A	A	P
			19	Nad Perge, S	A	A	P
			20	Newman, H	A	A	P
			21	Oguri, H	A	A	P
			22	Painter, O	A	A	P
			23	Patterson, R	A	A	P
			24	Phillips, R	A	A	P
			25	Porter, F	A	A	P
			26	Prince, T	A	A	P
			27	Rosenbaum, T	A	A	P
			28	Roukes, M	A	A	P
			29	Scherer, A	A	A	P
			30	Schwab, K	A	A	P
			31	Spiropulu, M	A	A	P
			32	Stone, E	A	A	P
			33	Weinstein, A	A	A	P
			34	Yeh, N	A	A	P
			35	Zmuidzinas, J	A	A	P
			36	Yue, Y	A	A	P
			37	Bellan, P	A	A	P
			38	Wise, M	A	A	P
			39	Bernardi, M	A	A	P
			40	Chen, X	A	A	P
			41	Chen, Y	A	A	P
			42	Cheung, C	A	A	P
			43	Guadalupe Dos Santos	A	A	P
				Lins Brandao, F			
			44	Gukov, S	A	A	P
			45	Hopkins, P	A	A	P
			46	Kapustin, A	A	A	P
			47	Preskill, J	A	A	P

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<b>PHYSICS</b>							
Ph 172	+	Research in Physics	48	Refael, G	A	A	P
			49	Simmons-Duffin, D	A	A	P
			50	Ravi, V	A	A	P
			51	Zurek, K	A	A	P
			52	Faraon, A	A	A	P
			53	Alicea, J	A	A	P
			54	Chan, G	A	A	P
			55	Teukolsky, S	A	A	P
			56	Chatziaoannou, K	A	A	P
			57	Bradford, C	A	A	P
			58	Dore, O	A	A	P
			59	McCuller, L	A	A	P
			60	Motrunich, O	A	A	P
			61	Kasliwal, M	A	A	P
Ph 177	0-4-5	Advanced Experimental Physics	01	Rice, F / Hutzler, N	OM,M 16:00 - 16:55	304 BRG	
CNS/Bi/Ph/CS/NB 187	3-0-6	Neural Computation	01	Meister, M / Rutishauser, U	TR 10:30 - 11:55	B180 BBB	
Ph 201	3-0-6	Candidacy Physics Fitness	01	Endres, M	F 14:30 - 16:25	469 LAU	P
Ph 205C	3-0-6	Relativistic Quantum Field Theory	01	Wise, M	MW 10:30 - 11:55	103 DWN	P
Ph/CS 219C	3-0-6	Quantum Computation	01	Preskill, J	MW 14:30 - 15:55	269 LAU	P
Ph/APh 223B	3-0-6	Advanced Condensed-Matter Physics	01	Alicea, J	MW 09:00 - 10:25	103 DWN	
Ph 229B	3-0-6	Advanced Mathematical Methods of Physics	01	Kapustin, A	TR 10:30 - 11:55	469 LAU	P
Ph 237	3-0-6	Gravitational Waves	01	Chen, Y	TR 14:30 - 15:55	103 DWN	

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<b>PHYSICS</b>							
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
			26	Libbrecht, K	A	A	P
			27	Marcolli, M	A	A	P
			28	Martin, C	A	A	P
			29	Mawet, D	A	A	P
			30	Motrunich, O	A	A	P
			31	Nad Perge, S	A	A	P
			32	Newman, H	A	A	P

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<b>PHYSICS</b>										
Ph 300	+	Thesis Research	33	Oguri, H	A	A	P			
			34	Painter, O	A	A	P			
			35	Patterson, R	A	A	P			
			36	Phillips, R	A	A	P			
			37	Phinney, E	A	A	P			
			38	Politzer, H	A	A	P			
			39	Porter, F	A	A	P			
			40	Preskill, J	A	A	P			
			41	Prince, T	A	A	P			
			42	Refael, G	A	A	P			
			43	Rosenbaum, T	A	A	P			
			44	Roukes, M	A	A	P			
			45	Scherer, A	A	A	P			
			46	Schwab, K	A	A	P			
			47	Schwarz, J	A	A	P			
			48	Scoville, N	A	A	P			
			49	Simmons-Duffin, D	A	A	P			
			50	Spiropulu, M	A	A	P			
			51	Stone, E	A	A	P			
			52	Teukolsky, S	A	A	P			
			53	Troian, S	A	A	P			
			54	Weinstein, A	A	A	P			
			55	Wise, M	A	A	P			
			56	Yeh, N	A	A	P			
			57	Yue, Y	A	A	P			
			58	Zmuidzinas, J	A	A	P			
			59	Ravi, V	A	A	P			
			60	Chatziioannou, K	A	A	P			
			<b>POLITICAL SCIENCE</b>							
			PS 012	3-0-6	Introduction to Political Science <i>maximum enrollment: 54 students</i>	01	Kiewiet, D	W 19:30 - 21:25	B125 BAX	

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<b>POLITICAL SCIENCE</b>							
PS 097	+	Undergraduate Research <i>Instructor permission required prior to registering</i>	01	Staff	A	A	P
PS 099B	3-0-6	Political Science Research Seminar <i>Designated as Writing Intensive Course // Instructor permission required prior to registering</i>	01	Alvarez, R	A	A	
PS 120	3-0-6	American Electoral Behavior and Party Strategy <i>Designated as Writing Intensive Course</i>	01	Alvarez, R	MW 10:30 - 11:55	127 BAX	G
PS 122	3-0-6	Political Representation	01	Gibilisco, M	M 19:00 - 21:55	B125 BAX	
PS 139	3-0-6	Comparative Politics	01	Lopez-Moctezuma Jassan, G	W 13:00 - 15:55	127 BAX	G
PS 141B	3-0-6	A History of Budgetary Politics in the United States <i>designated as Writing Intensive course // maximum enrollment: 75 students</i>	01	Kiewiet, D	T 14:30 - 15:55	B125 BAX	G
PS/Ec 172	3-0-6	Game Theory	01	Tamuz, O	TR 13:00 - 14:25	Lecture Hall BAX	
<b>PSYCHOLOGY</b>							
Psy013	3-0-6	Introduction to Cognitive Neuroscience <i>maximum enrollment: 100 students</i>	01	Mobbs, D	TR 10:30 - 11:55	Lecture Hall BAX	
CNS/Psy/Bi 102B	3-0-6	Brains, Minds, and Society <i>maximum enrollment: 20 students</i>	01	Camerer, C	TR 13:00 - 14:25	B119 BAX	
CNS/Bi/Psy/NB 176	4-0-5	Cognition <i>class will meet in KRK 101 on 4/10/23 and 4/19/23</i>	01	Shimojo, S	MW 14:00 - 15:55	130 CNRB	
Psy/Bi/CNS 255	3-0-6	Topics in Emotion and Social Cognition <i>maximum enrollment: 12 students</i>	01	Mobbs, D	W 10:00 - 12:55	128 BAX	



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<b>PSYCHOLOGY</b>							
Psy283C	1.5-0-1.5	Graduate Proseminar in Social and Decision Neuroscience <i>this course is only open to graduate students in the Social and Decision Neuroscience, Computational and Neural Systems and Social Science PhD programs</i>	01	Camerer, C	T 14:30 - 15:55	127 BAX	P
<b>SCIENTIFIC AND ENGINEERING COMMUNICATION</b>							
SEC010	3-0-0	Technical Seminar Presentations <i>Open to E&amp;AS Seniors only // Maximum enrollment: 18 students per section // to be added to the waitlist after class fills, go to <a href="http://registrar.caltech.edu/SEC10WaitlistForm">http://registrar.caltech.edu/SEC10WaitlistForm</a></i>	01 02 03	Javier, R Javier, R Dabiri, M	MWF 09:00 - 09:55 MWF 10:00 - 10:55 MWF 11:00 - 11:55	100 PWL/BTH 100 PWL/BTH 100 PWL/BTH	G G G
SEC012	1-0-2	Written Professional Communication in Engineering and Applied Science <i>Open to E&amp;AS seniors only // Maximum enrollment: 20 students // to be added to waitlist go to <a href="http://registrar.caltech.edu/SEC11-12-13WaitlistForm">http://registrar.caltech.edu/SEC11-12-13WaitlistForm</a></i>	01	Bickford, C	F 13:00 - 13:55	142 KCK	G
SEC013	1-0-2	Written Communication about Engineering and Applied Science to Non-Specialists <i>Open to E&amp;AS seniors only // Maximum enrollment: 20 students // to be added to waitlist go to <a href="http://registrar.caltech.edu/SEC11-12-13WaitlistForm">http://registrar.caltech.edu/SEC11-12-13WaitlistForm</a></i>	01	Burkett, E	W 11:00 - 11:55	104 WAT	G
E/SEC 102	3-0-6	Scientific and Technology Entrepreneurship <i>maximum enrollment: 40 students // juniors and above only</i>	01	Wilson, N	M 13:00 - 15:55	103 DWN	G
E/SEC 103	3-0-6	Management of Technology <i>Open by application only, use this link to request enrollment <a href="https://forms.gle/Qd2qR9GRYBSohY826">https://forms.gle/Qd2qR9GRYBSohY826</a> // (requires being logged into Google under Caltech account)</i>	01	Murray, R	MW 13:30 - 14:55	B270 MRE	

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<b>SCIENTIFIC AND ENGINEERING COMMUNICATION</b>							
SEC111	3-0-3	Effective Communication Strategies for Engineers and Scientists <i>class cancelled</i>	01	Javier, R	A	A	P
<b>SOCIAL SCIENCE</b>							
SS 201C	3-0-6	Analytical Foundations of Social Science <i>Open to Social Science graduate students only.</i>	01	Pomatto, L	MW 10:30 - 11:55	B125 BAX	G
SS 202C	3-0-6	Political Theory <i>Open to Social Science graduate students only.</i>	01	Lopez-Moctezuma Jassan, G	TR 13:00 - 14:25	125 BAX	G
SS 205C	3-0-6	Foundations of Economics <i>Open to Social Science graduate students only.</i>	01	Pourbabae, M	MW 13:00 - 14:25	128 BAX	G
SS 211C	3-0-6	Advanced Economic Theory	01	Caradonna, P	W 09:00 - 11:55	125 BAX	G
SS 212C	3-0-6	Experimental Economics	01	Nielsen, K	MW 13:00 - 14:25	B119 BAX	G
SS 222C	3-0-6	Econometrics	01	Sherman, R	TR 10:30 - 11:55	125 BAX	G
SS 223C	3-0-6	Topics in Theoretical and Applied Econometrics <i>Open to graduate students only</i>	01	Xin, Y	MR 10:30 - 11:55	228 BAX	G
SS 229B	3-0-6	Theoretical and Quantitative Dimensions of Historical Development <i>maximum enrollment: 10 students</i>	01	Janas, P	TR 14:30 - 15:55	B133 BAX	G
SS 282C	1.5-0-1.5	Graduate Proseminar in Social Science	01	Nielsen, K	M 14:30 - 15:55	125 BAX	P
SS 300	+	Research in Social Science	01	Cvitanic, J	A	A	P
			03	Echenique, F	A	A	P
			04	Hoffman, P	A	A	P
			06	Katz, J	A	A	P
			08	Tamuz, O	A	A	P
			09	Camerer, C	A	A	P

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<b>SOCIAL SCIENCE</b>							
SS 300	+	Research in Social Science	11	Palfrey, T	A	A	P
			12	Kiewiet, D	A	A	P
			13	Wilkie, S	A	A	P
			14	Alvarez, R	A	A	P
			15	Plott, C	A	A	P
			16	Hirsch, A	A	A	P
			17	Agranov, M	A	A	P
			18	Rosenthal, J	A	A	P
			19	Shum, M	A	A	P
			20	Rangel, A	A	A	P
			23	O'Doherty, J	A	A	P
			24	Perona, P	A	A	P
			25	Adolphs, R	A	A	P
			26	Shimojo, S	A	A	P
			28	Mobbs, D	A	A	P
			29	Sprenger, C	A	A	P
			30	Nielsen, K	A	A	P
31	Ewens, M	A	A	P			
32	Pomatto, L	A	A	P			
33	Sherman, R	A	A	P			
<b>STUDENT ACTIVITIES</b>							
SA 016C	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	01	Wierman, A / Ralph, C	F 10:00 - 10:55	104 ANB	P
SA 080C	1-1-1	Health Advocates <i>maximum enrollment: 24 students per section</i>	01	Stapf, M / Mateo, V	W 19:00 - 21:55	132 YHC	P
			02	Stapf, M / Mateo, V	R 19:00 - 21:55	132 YHC	P
SA 081	1-1-1	Peer Advocates <i>open only to Peer Advocates // maximum enrollment: 40 students</i>	01	Coleman, L / Tejada, V	R 19:00 - 20:55	107 DWN	P
<b>STUDY ABROAD</b>							

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<b>STUDY ABROAD</b>							
CAM100	36-0-0	Cambridge Scholars Program	01	Staff	A	A	P
CPH100	36-0-0	Copenhagen Scholars Program	01	Staff	A	A	P
<b>VISUAL CULTURE</b>							
Hum/VC 050	3-0-6	Introduction to Film <i>Attendance at first class meeting is required. // maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Jurca, C	TR 14:30 - 15:55	102 SPL	
Hum/VC 052	3-0-6	The Legacy of the Mexican School <i>Attendance at first class meeting is required. // Maximum enrollment: 15 students</i>	01	Decemvirale, J	T 19:00 - 21:55	B119 BAX	
VC 055	3-0-3	Environmental Media in Practice <i>maximum enrollment: 15 students</i>	01	Livio, M	TR 13:00 - 14:25	TR DAB	P
VC 159	3-0-6	Los Angeles as Artwork: Dia de los Muertos <i>maximum enrollment: 15 students</i>	01	Decemvirale, J	R 19:00 - 21:55	128 BAX	
En/VC 160A	3-0-6	Classical Hollywood Cinema <i>maximum enrollment: 15 students // class full, see instructor for waitlist</i>	01	Jurca, C	TR 10:30 - 11:55	B119 BAX	
VC 169	3-0-6	The Arts of Dynastic China <i>maximum enrollment: 15 students</i>	01	Wolfgram, J	TR 09:00 - 10:25	228 BAX	
<b>WRITING</b>							
Wr 050	+	Tutorial in Writing	01	Hall, S	A	A	P
En/Wr 084	3-0-6	Communicating Science to Non-Experts <i>maximum enrollment: 15 students // graduate students can only enroll with instructor's permission</i>	01	Hall, S	TR 13:00 - 14:25	128 BAX	

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule SP 2022-23

Web Address - <http://www.registrar.caltech.edu/>

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>WRITING</b>							
ESL/Wr 107	3-0-3	Fundamentals of Scientific Writing <i>maximum enrollment: 15 students</i>	01	Manoukian, N	TR 15:30 - 16:55	121 BCK	P