

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	Music	
BRN	Braun Laboratory	NMD	North Mudd Building of Geological Sciences
BRW	Brown Gym	NYS	Noyes Laboratory of Chemical Physics
CHL	Cahill Center for Astronomy and Astrophysics	NewMedia	NewMedia Classroom
CHR	Church Laboratory of Chemical Biology	POLY	Polytechnic School
CNRB	Tianqiao and Chrissy Chen Neuroscience Research Building	PWL/BTH	Powell/Booth Laboratory
CRL	Crellin Chemistry Laboratory	REMOTE	
CSS	Center for Student Services	SCH	Schlinger Laboratory
Caltech		SFL	Sherman Fairchild Library
DAB	Dabney Hall of Humanities	SLN	Sloan Laboratory of Mathematics and Physics
DWN	Downs Physics Laboratory	SMD	South Mudd Building of Geophysics and Planetary Sciences
FIR	Firestone Flight Science Laboratory	SPL	Spaulding Laboratory of Chemical Engineering
GCL	Gates Chemical Laboratory	STL	Steele Laboratory of Electrical Engineering
GTL	Gates-Thomas Engineering Laboratory	TCT	Theater Arts at Caltech (TACIT)
GUG	Guggenheim Laboratory	WAT	Watson Laboratory of Applied Physics
HAM	Hameetman Center	YHC	Young Health Center

**GRADING SCHEME**

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

**TIMES/LOCATION/UNITS**

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

**DAYS OF THE WEEK**

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

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Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>AEROSPACE</b>							
Ae 100	+	Research in Aerospace	01	Culick, F	A	A	P
			02	Daraio, C	A	A	P
			03	Ravichandran, G	A	A	P
			04	Rosakis, A	A	A	P
			05	Shepherd, J	A	A	P
			06	Chung, S	A	A	P
			07	Bae, H	A	A	P
			08	Austin, J	A	A	P
Ae 200	+	Advanced Research in Aerospace	01	Bellan, P	A	A	P
			02	Bhattacharya, K	A	A	P
			03	Blake, G	A	A	P
			04	Gharib, M	A	A	P
			05	Hornung, H	A	A	P
			06	Hunt, M	A	A	P
			07	Minnich, A	A	A	P
			08	Leonard, A	A	A	P
			09	Murray, R	A	A	P
			10	Ortiz, M	A	A	P
			11	Colonus, T	A	A	P
			12	Pullin, D	A	A	P
			13	Ravichandran, G	A	A	P
			14	Rosakis, A	A	A	P
			16	McKeon, B	A	A	P
			17	Austin, J	A	A	P
			18	Kulkarni, S	A	A	P
			19	Shepherd, J	A	A	P
			20	Burdick, J	A	A	P
			21	Lapusta, N	A	A	P
			22	Daraio, C	A	A	P
			23	Pellegrino, S	A	A	P
			24	Dickinson, M	A	A	P
			25	Blanquart, G	A	A	P
			26	Schneider, T	A	A	P

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<b>AEROSPACE</b>							
Ae 200	+	Advanced Research in Aerospace	27	Greer, J	A	A	P
			29	Gurnis, M	A	A	P
			30	Minnich, A	A	A	P
			31	Asimaki, D	A	A	P
			32	Chung, S	A	A	P
			33	Heaton, T	A	A	P
			34	Meiron, D	A	A	P
			35	Dabiri, J	A	A	P
			36	Mawet, D	A	A	P
			37	Bae, H	A	A	P
			38	Kornfield, J	A	A	P
Ae 240	+	Special Topics in Fluid Mechanics	01	McKeon, B	A	A	P
<b>ANTHROPOLOGY</b>							
An 097	+	Undergraduate Research	01	Staff	A	A	P
<b>APPLIED &amp; COMPUTATIONAL MATH</b>							
ACM190	+	Reading and Independent Study	01	Bruno, O	A	A	P
			02	Owhadi, H	A	A	P
			03	Hoffmann, F	A	A	P
ACM300	+	Research in Applied and Computational Mathematics	01	Bruno, O	A	A	P
			02	Chandrasekaran, V	A	A	P
			03	Beck, J	A	A	P
			05	Hou, Y	A	A	P
			06	Graber, T	A	A	P
			07	Meiron, D	A	A	P
			08	Schroeder, P	A	A	P
			09	Stuart, A	A	A	P
			11	Owhadi, H	A	A	P
			12	Hoffmann, F	A	A	P

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<b>APPLIED &amp; COMPUTATIONAL MATH</b>							
ACM300	+	Research in Applied and Computational Mathematics	15	Tropp, J	A	A	P
			16	Hassibi, B	A	A	P
<b>APPLIED MECHANICS</b>							
AM 200	+	Special Problems in Advanced Mechanics	01	Staff	A	A	P
AM 300	+	Research in Applied Mechanics	02	Bhattacharya, K	A	A	P
			03	Andrade, J	A	A	P
			04	Murray, R	A	A	P
			06	Phillips, R	A	A	P
			07	Ravichandran, G	A	A	P
			08	Lapusta, N	A	A	P
			09	Greer, J	A	A	P
			10	Fu, X	A	A	P
<b>APPLIED PHYSICS</b>							
APh100	+	Advanced Work in Applied Physics	01	Atwater, H	A	A	P
			02	Painter, O	A	A	P
			07	Goddard, W	A	A	P
			10	Yeh, N	A	A	P
			14	Phillips, R	A	A	P
APh200	+	Applied Physics Research	01	Atwater, H	A	A	P
			03	Bellan, P	A	A	P
			04	Chen, Y	A	A	P
			05	Mirhosseini, M	A	A	P
			06	Spiropulu, M	A	A	P
			07	Elowitz, M	A	A	P
			08	Fultz, B	A	A	P
			10	Hsieh, D	A	A	P
			11	Preskill, J	A	A	P
			12	Faraon, A	A	A	P
			13	Minnich, A	A	A	P

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<b>APPLIED PHYSICS</b>							
APh200	+	Applied Physics Research	14	Johnson, W	A	A	P
			15	Motrunich, O	A	A	P
			16	Gharib, M	A	A	P
			17	Schneider, T	A	A	P
			18	Alicea, J	A	A	P
			19	Painter, O	A	A	P
			20	Phillips, R	A	A	P
			21	Bernardi, M	A	A	P
			22	Rosenbaum, T	A	A	P
			23	Roukes, M	A	A	P
			24	Bock, J	A	A	P
			25	Scherer, A	A	A	P
			26	Hutzler, N	A	A	P
			27	Yeh, N	A	A	P
			29	Vahala, K	A	A	P
			30	Yariv, A	A	A	P
			31	Adhikari, R	A	A	P
			32	Falson, J	A	A	P
			33	Winfrey, E	A	A	P
			34	Cushing, S	A	A	P
			36	Kornfield, J	A	A	P
			37	Troian, S	A	A	P
			38	Johnson, W	A	A	P
			39	Schwab, K	A	A	P
			40	Greer, J	A	A	P
			41	Chan, G	A	A	P
			42	Lewis, N	A	A	P
			43	Refael, G	A	A	P
			45	Goddard, W	A	A	P
46	Nad Perge, S	A	A	P			
47	Endres, M	A	A	P			
48	Marandi, A	A	A	P			
49	Daraio, C	A	A	P			

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<b>APPLIED PHYSICS</b>							
APh200	+	Applied Physics Research	50	Burdick, J	A	A	P
APh300	+	Thesis Research in Applied Physics	01	Atwater, H	A	A	P
			02	Bellan, P	A	A	P
			03	Schwab, K	A	A	P
			04	Chen, Y	A	A	P
			05	Daraio, C	A	A	P
			06	Nad Perge, S	A	A	P
			07	Fultz, B	A	A	P
			08	Flagan, R	A	A	P
			09	Faraon, A	A	A	P
			11	Hsieh, D	A	A	P
			12	Faraon, A	A	A	P
			13	Refael, G	A	A	P
			14	Phillips, R	A	A	P
			15	Bernardi, M	A	A	P
			16	Hutzler, N	A	A	P
			17	Marandi, A	A	A	P
			18	Roukes, M	A	A	P
			19	Bhattacharya, K	A	A	P
			20	Scherer, A	A	A	P
			23	Vahala, K	A	A	P
			24	Kornfield, J	A	A	P
			25	Yariv, A	A	A	P
			28	Trojan, S	A	A	P
			31	Zmuidzinas, J	A	A	P
			32	Rosenbaum, T	A	A	P
			33	Painter, O	A	A	P
			35	Minnich, A	A	A	P
			36	Schneider, T	A	A	P
			37	Endres, M	A	A	P
			38	Falson, J	A	A	P
			39	Burdick, J	A	A	P

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<b>ASTROPHYSICS</b>							
Ay 142	+	Research in Astronomy and Astrophysics	01	Bock, J	A	A	P
			02	Djorgovski, S	A	A	P
			03	Fuller, J	A	A	P
			04	Hallinan, G	A	A	P
			05	Harrison, F	A	A	P
			06	Hillenbrand, L	A	A	P
			07	Hopkins, P	A	A	P
			08	Howard, A	A	A	P
			09	Kasliwal, M	A	A	P
			11	Knutson, H	A	A	P
			12	Kulkarni, S	A	A	P
			13	Martin, C	A	A	P
			14	Mawet, D	A	A	P
			15	Phinney, E	A	A	P
			16	Prince, T	A	A	P
			17	Sargent, A	A	A	P
			18	Steidel, C	A	A	P
			19	Zmuidzinas, J	A	A	P
			20	Ravi, V	A	A	P
			21	Brown, M	A	A	P
			22	Batygin, K	A	A	P
			23	Golwala, S	A	A	P
			24	Chang, T	A	A	P
			Ay 143	+	Reading and Independent Study	01	Hallinan, G
<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
BMB299	+	Graduate Research	01	Arnold, F	A	A	P
			02	Bjorkman, P	A	A	P
			03	Goentoro, L	A	A	P
			04	Campbell, J	A	A	P
			05	Cai, L	A	A	P
			06	Thomson, M	A	A	P

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<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
BMB299	+	Graduate Research	07	Deshaies, R	A	A	P
			08	Dougherty, D	A	A	P
			09	Guttman, M	A	A	P
			10	Goddard, W	A	A	P
			11	Hsieh-Wilson, L	A	A	P
			13	Anderson, D	A	A	P
			14	Hoelz, A	A	A	P
			15	Mayo, S	A	A	P
			16	Parker, C	A	A	P
			17	Pierce, N	A	A	P
			19	Rees, D	A	A	P
			20	Shapiro, M	A	A	P
			21	Rothenberg, E	A	A	P
			22	Lester, H	A	A	P
			23	Elowitz, M	A	A	P
			24	Tirrell, D	A	A	P
			25	Meister, M	A	A	P
			26	Ismagilov, R	A	A	P
			28	Kennedy, M	A	A	P
			29	Dervan, P	A	A	P
			30	Zinn, K	A	A	P
			31	Meyerowitz, E	A	A	P
			32	Phillips, R	A	A	P
			33	Wold, B	A	A	P
			34	Hay, B	A	A	P
			35	Greer, J	A	A	P
			36	Shan, S	A	A	P
			37	Barton, J	A	A	P
			38	Leadbetter, J	A	A	P
			39	Murray, R	A	A	P
			40	Mazmanian, S	A	A	P
			41	Baltimore, D	A	A	P
			42	Wang, Z	A	A	P



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<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
BMB299	+	Graduate Research	43	Sternberg, P	A	A	P
			44	Clemons, W	A	A	P
			45	Gharib, M	A	A	P
			46	Davis, M	A	A	P
			47	Roukes, M	A	A	P
			48	Newman, D	A	A	P
			49	Varshavsky, A	A	A	P
			50	Gray, H	A	A	P
			51	Roukes, M	A	A	P
			52	Meister, M	A	A	P
			53	Voorhees, R	A	A	P
			54	Pachter, L	A	A	P
			55	Parker, J	A	A	P
			56	Dunphy, W	A	A	P
57	Semlow, D	A	A	P			
58	Chan, D	A	A	P			
59	Nelson, H	A	A	P			
60	Chong, S	A	A	P			
61	Wang, K	A	A	P			
<b>BIOENGINEERING</b>							
BE 098	+	Undergraduate Research in Bioengineering	01	Kennedy, M	A	A	P
			02	Wang, K	A	A	P
			03	Lester, H	A	A	P
			4	Qian, L	A	A	P
BE 200	+	Research in Bioengineering	01	Arnold, F	A	A	P
			02	Troian, S	A	A	P
			03	Burdick, J	A	A	P
			04	Rothmund, P	A	A	P
			05	Dervan, P	A	A	P
			06	Thomson, M	A	A	P
			07	Gharib, M	A	A	P
			08	Hajimiri, S	A	A	P

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<b>BIOENGINEERING</b>							
BE 200	+	Research in Bioengineering	09	Ismagilov, R	A	A	P
			10	Lester, H	A	A	P
			11	Phillips, R	A	A	P
			12	Pierce, N	A	A	P
			13	Meister, M	A	A	P
			14	Goddard, W	A	A	P
			15	Gradinaru, V	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	Andersen, R	A	A	P
			22	Mayo, S	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfrey, E	A	A	P
			28	Cai, L	A	A	P
			29	Goentoro, L	A	A	P
			30	Sternberg, P	A	A	P
			31	Kornfield, J	A	A	P
			32	Shapiro, M	A	A	P
			33	Baltimore, D	A	A	P
			34	Guttman, M	A	A	P
			35	Qian, L	A	A	P
			36	Hong, E	A	A	P
			37	Bjorkman, P	A	A	P
			38	Dickinson, M	A	A	P
			39	Parker, J	A	A	P
			40	Greer, J	A	A	P
			41	Pachter, L	A	A	P
			42	Mazmanian, S	A	A	P

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<b>BIOENGINEERING</b>							
BE 200	+	Research in Bioengineering	43	Wang, K	A	A	P
			44	Meyerowitz, E	A	A	P
			45	Clemons, W	A	A	P
			46	Lois, C	A	A	P
			47	Newman, D	A	A	P
			48	Rutishauser, U	A	A	P
			49	Chan, D	A	A	P
			50	Anderson, D	A	A	P
			51	Fischer, W	A	A	P
			52	Rothenberg, E	A	A	P
			53	Fejes Toth, K	A	A	P
			54	Wold, B	A	A	P
			55	Van Valen, D	A	A	P
			56	Daraio, C	A	A	P
			57	Demirer, G	A	A	P
			58	Wang, L	A	A	P
			59	Hoffmann, F	A	A	P
60	Orphan, V	A	A	P			
BE/Bi/NB 203	6-0-0	Introduction to Programming for the Biological Sciences Bootcamp <i>Class meets June 20 - 24, 2023, from 9am to 6pm in CNRB 130</i>	01	Bois, J	A	A	P
BE 262	2-10-0	Physical Biology Boot Camp <i>Enrollment limited to incoming BMB, BE, Bi, CNS and NB grad students or instructor's permission. // to be held September 6 - 13, 2023, from 9am to 10pm in CNRB 100, with a lab component 6-10pm in KRK B126</i>	01	Phillips, R	A	A	P
<b>BIOLOGY</b>							
Bi 022	+	Undergraduate Research	01	Sternberg, P	A	A	P
			02	Hay, B	A	A	P
			03	Pachter, L	A	A	P

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<b>BIOLOGY</b>							
BE/Bi/NB 203	6-0-0	Introduction to Programming for the Biological Sciences Bootcamp <i>Class meets June 20 - 24, 2023, from 9am to 6pm in CNRB 130</i>	01	Bois, J	A	A	P
Bi 265	2-3-1	Biological Research: Fellowship Application and Science <i>Class dates: June 28 - August 30</i>	01	Hoy, J / Orphan, V	W 11:00 - 11:55	152 BRN	P
Bi 299	+	Graduate Research	01	Burdick, J	A	A	P
			02	Siapas, A	A	A	P
			03	Allman, J	A	A	P
			04	Anderson, D	A	A	P
			05	Murray, R	A	A	P
			06	Thomson, M	A	A	P
			07	Baltimore, D	A	A	P
			08	Bjorkman, P	A	A	P
			09	Bronner Hansen, M	A	A	P
			10	Campbell, J	A	A	P
			11	Chan, D	A	A	P
			13	Deshaies, R	A	A	P
			14	Newman, D	A	A	P
			15	Dunphy, W	A	A	P
			16	Wang, K	A	A	P
			17	Hay, B	A	A	P
			18	Kennedy, M	A	A	P
			19	Fischer, W	A	A	P
			20	Shapiro, M	A	A	P
			21	Lester, H	A	A	P
			22	Elowitz, M	A	A	P
			23	Mayo, S	A	A	P
			24	Meyerowitz, E	A	A	P
			25	Siapas, A	A	A	P
			26	Murray, R	A	A	P
			27	Lois, C	A	A	P

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<b>BIOLOGY</b>							
Bi 299	+	Graduate Research	28	Gradinaru, V	A	A	P
			29	Scherer, A	A	A	P
			30	Stathopoulos, A	A	A	P
			31	Goentoro, L	A	A	P
			32	Rothenberg, E	A	A	P
			33	Guttman, M	A	A	P
			34	Shimojo, S	A	A	P
			35	Prober, D	A	A	P
			36	Sternberg, P	A	A	P
			37	Dickinson, M	A	A	P
			38	Meister, M	A	A	P
			39	Wold, B	A	A	P
			40	Zinn, K	A	A	P
			41	Ismagilov, R	A	A	P
			42	Andersen, R	A	A	P
			43	Varshavsky, A	A	A	P
			44	Hong, E	A	A	P
			45	Leadbetter, J	A	A	P
			46	Winfree, E	A	A	P
			47	Orphan, V	A	A	P
			48	Kirschvink, J	A	A	P
			50	Goddard, W	A	A	P
			51	Adolphs, R	A	A	P
			52	Oka, Y	A	A	P
			53	Pierce, N	A	A	P
			54	Mazmanian, S	A	A	P
			55	Clemons, W	A	A	P
			56	Shan, S	A	A	P
			59	Gharib, M	A	A	P
			60	Aravin, A	A	A	P
			61	Dougherty, D	A	A	P
			62	Cai, L	A	A	P
			63	Qian, L	A	A	P

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<b>BIOLOGY</b>							
Bi 299	+	Graduate Research	64	Fejes Toth, K	A	A	P
			65	Tai, Y	A	A	P
			66	Hsieh-Wilson, L	A	A	P
			67	Doyle, J	A	A	P
			68	Phillips, R	A	A	P
			69	Pachter, L	A	A	P
			70	Voorhees, R	A	A	P
			71	Parker, J	A	A	P
			72	Van Valen, D	A	A	P
			73	Roukes, M	A	A	P
			74	de Kleer, K	A	A	P
			75	Zernicka-Goetz, M	A	A	P
			76	Guttman, M	A	A	P
			77	Chong, S	A	A	P
			78	Demirer, G	A	A	P
			79	Glover, D	A	A	P
80	McFall-Ngai, M	A	A	P			
<b>BUSINESS, ECONOMICS, AND MANAGEMENT</b>							
BEM097	+	Undergraduate Research	01	Staff	A	A	P
<b>CHEMICAL ENGINEERING</b>							
ChE280	+	Chemical Engineering Research	01	Murray, R	A	A	P
			02	Arnold, F	A	A	P
			03	Ismagilov, R	A	A	P
			04	Atwater, H	A	A	P
			05	Barton, J	A	A	P
			07	Shapiro, M	A	A	P
			08	See, K	A	A	P
			09	Brady, J	A	A	P
			10	Hoffmann, M	A	A	P
			11	Robb, M	A	A	P

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<b>CHEMICAL ENGINEERING</b>							
ChE280	+	Chemical Engineering Research	12	Wei, L	A	A	P
			13	Davis, M	A	A	P
			14	Chan, G	A	A	P
			15	Dougherty, D	A	A	P
			16	Flagan, R	A	A	P
			17	Elowitz, M	A	A	P
			18	Pachter, L	A	A	P
			19	Giapis, K	A	A	P
			20	Goddard, W	A	A	P
			21	Wang, K	A	A	P
			22	Hadt, R	A	A	P
			24	Mayo, S	A	A	P
			26	Kornfield, J	A	A	P
			28	Lewis, N	A	A	P
			33	Okumura, M	A	A	P
			34	Parker, C	A	A	P
			36	Pierce, N	A	A	P
			42	Seinfeld, J	A	A	P
			43	Stoltz, B	A	A	P
			44	Tirrell, D	A	A	P
			45	Wang, Z	A	A	P
			49	Yung, Y	A	A	P
			53	Greer, J	A	A	P
54	Fultz, B	A	A	P			
55	Fultz, B	A	A	P			
56	Troian, S	A	A	P			
58	Agapie, T	A	A	P			
59	Gao, W	A	A	P			
60	Manthiram, K	A	A	P			
61	Demirer, G	A	A	P			
62	Schneider, T	A	A	P			

**CHEMISTRY**

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<b>CHEMISTRY</b>							
Ch 080	+	Chemical Research	01	Lewis, N	A	A	P
			02	Reisman, S	A	A	P
			03	Peters, J	A	A	P
Ch 081	+	Independent Reading In Chemistry	01	Gray, H	A	A	P
Ch 143	3-0-6	NMR Spectroscopy for Structural Identification <i>not open for enrollment</i>	01	Virgil, S	A	A	
Ch 180	+	Chemical Research	01	Gray, H	A	A	P
			02	Agapie, T	A	A	P
			03	Goddard, W	A	A	P
			04	Eiler, J	A	A	P
Ch 279	+	Rotations in Chemistry	01	Stoltz, B	A	A	P
			02	Agapie, T	A	A	P
			03	Hsieh-Wilson, L	A	A	P
			04	Shapiro, M	A	A	P
			05	See, K	A	A	P
			06	Chan, G	A	A	P
			07	Reisman, S	A	A	P
			08	Nelson, H	A	A	P
Ch 280	+	Chemical Research	01	Adkins, J	A	A	P
			02	Arnold, F	A	A	P
			03	Goentoro, L	A	A	P
			04	Atwater, H	A	A	P
			05	Barton, J	A	A	P
			06	Wei, L	A	A	P
			07	Chou, T	A	A	P
			08	Blake, G	A	A	P
			09	Ismagilov, R	A	A	P
			10	Sternberg, P	A	A	P
			11	Agapie, T	A	A	P
			12	Fu, G	A	A	P
			13	Davis, M	A	A	P



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<b>CHEMISTRY</b>							
Ch 280	+	Chemical Research	14	Dervan, P	A	A	P
			15	Dougherty, D	A	A	P
			16	Flagan, R	A	A	P
			17	Chan, G	A	A	P
			18	Yeh, N	A	A	P
			19	Hoelz, A	A	A	P
			20	Goddard, W	A	A	P
			21	Gray, H	A	A	P
			23	Manthiram, K	A	A	P
			24	Hsieh-Wilson, L	A	A	P
			25	Hoffmann, M	A	A	P
			26	Kornfield, J	A	A	P
			27	Cai, L	A	A	P
			28	Lewis, N	A	A	P
			29	Wang, Z	A	A	P
			30	See, K	A	A	P
			31	Mayo, S	A	A	P
			32	Giapis, K	A	A	P
			33	Okumura, M	A	A	P
			34	Greer, J	A	A	P
			35	Peters, J	A	A	P
			36	Pierce, N	A	A	P
			37	Blanquart, G	A	A	P
			38	Rees, D	A	A	P
			39	Lester, H	A	A	P
			41	Deshaies, R	A	A	P
			42	Seinfeld, J	A	A	P
			43	Stoltz, B	A	A	P
			44	Tirrell, D	A	A	P
			45	Wang, Z	A	A	P
			46	Weitekamp, D	A	A	P
			47	Wennberg, P	A	A	P
			48	Robb, M	A	A	P

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<b>CHEMISTRY</b>							
Ch 280	+	Chemical Research	49	Clemons, W	A	A	P
			50	Campbell, J	A	A	P
			51	Bjorkman, P	A	A	P
			52	Wei, L	A	A	P
			53	Shan, S	A	A	P
			54	Reisman, S	A	A	P
			56	Hoelz, A	A	A	P
			58	Shapiro, M	A	A	P
			59	Newman, D	A	A	P
			61	See, K	A	A	P
			62	Asimow, P	A	A	P
			63	Wei, L	A	A	P
			64	Parker, J	A	A	P
			65	Cushing, S	A	A	P
			66	Voorhees, R	A	A	P
			67	Hadt, R	A	A	P
			68	Eiler, J	A	A	P
			69	Van Valen, D	A	A	P
			70	Minnich, A	A	A	P
			71	Faber, K	A	A	P
			72	Semlow, D	A	A	P
			73	Bernardi, M	A	A	P
			74	Pachter, L	A	A	P
			75	Nelson, H	A	A	P
			76	Anandkumar, A	A	A	P
			77	Chong, S	A	A	P
			78	Brown, M	A	A	P
			79	Daraio, C	A	A	P
			80	Demirer, G	A	A	P
			81	Fu, G	A	A	P
<b>CIVIL ENGINEERING</b>							

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<b>CIVIL ENGINEERING</b>							
CE 200	+	Advanced Work in Civil Engineering	01	Staff	A	A	P
CE 300	+	Research in Civil Engineering	01	Andrade, J	A	A	P
			02	Daraio, C	A	A	P
			03	Fu, X	A	A	P
			06	Ravichandran, G	A	A	P
			09	Lapusta, N	A	A	P
			10	Asimaki, D	A	A	P
			11	Pellegrino, S	A	A	P
<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS180	+	Research in Computation and Neural Systems	01	Anderson, D	A	A	P
			02	Van Valen, D	A	A	P
			03	Murray, R	A	A	P
			04	Gradinaru, V	A	A	P
			05	Burdick, J	A	A	P
			06	Andersen, R	A	A	P
			07	Allman, J	A	A	P
			08	Quartz, S	A	A	P
			09	Siapas, A	A	A	P
			10	Rutishauser, U	A	A	P
			11	Lester, H	A	A	P
			12	Winfrey, E	A	A	P
			13	Meister, M	A	A	P
			14	Hong, E	A	A	P
			15	Kennedy, M	A	A	P
			16	Anandkumar, A	A	A	P
17	Perona, P	A	A	P			
22	Shimojo, S	A	A	P			
23	Wold, B	A	A	P			
26	Adolphs, R	A	A	P			
27	O'Doherty, J	A	A	P			
28	Dickinson, M	A	A	P			

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<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS180	+	Research in Computation and Neural Systems	29	Allman, J	A	A	P
			30	Camerer, C	A	A	P
			36	Elowitz, M	A	A	P
			37	Rangel, A	A	A	P
			38	Prober, D	A	A	P
			39	Low, S	A	A	P
			40	Yue, Y	A	A	P
			41	Thomson, M	A	A	P
			42	Ames, A	A	A	P
			43	Mobbs, D	A	A	P
CNS280	+	Research in Computation and Neural Systems	01	Abu-Mostafa, Y	A	A	P
			02	Rangel, A	A	A	P
			03	Murray, R	A	A	P
			04	Dickinson, M	A	A	P
			05	Quartz, S	A	A	P
			06	Lester, H	A	A	P
			07	Elowitz, M	A	A	P
			08	Allman, J	A	A	P
			09	Oka, Y	A	A	P
			10	Camerer, C	A	A	P
			11	Hong, E	A	A	P
			12	Winfrey, E	A	A	P
			13	Gradinaru, V	A	A	P
			14	Sternberg, P	A	A	P
			15	Perona, P	A	A	P
17	Meister, M	A	A	P			
18	Andersen, R	A	A	P			
19	Bruck, J	A	A	P			
20	Shimojo, S	A	A	P			
21	Thomson, M	A	A	P			
22	Wold, B	A	A	P			
23	O'Doherty, J	A	A	P			
25	Siapas, A	A	A	P			

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<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS280	+	Research in Computation and Neural Systems	26	Adolphs, R	A	A	P
			27	Hoffmann, M	A	A	P
			28	Burdick, J	A	A	P
			29	Rutishauser, U	A	A	P
			31	Scherer, A	A	A	P
			32	Mobbs, D	A	A	P
			33	Van Valen, D	A	A	P
<b>COMPUTER SCIENCE</b>							
CS 081A	+	Undergraduate Projects in Computer Science	01	Perona, P	A	A	P
			02	Ralph, C	A	A	P
			03	Hovik, M	A	A	P
			04	Vanier, M	A	A	P
CS 090	+	Undergraduate Reading in Computer Science	01	Abu-Mostafa, Y	A	A	P
			02	Ralph, C / Hovik, M	A	A	P
			03	Ralph, C / Hovik, M	A	A	P
			04	Alvarez, R	A	A	P
CS 130	3-3-3	Software Engineering <i>enrollment only by permission of the instructor</i>	01	Pinkston, D	A	A	P
CS 180	+	Master's Thesis Research	01	Barr, A	A	A	P
			03	Abu-Mostafa, Y	A	A	P
			05	Schroeder, P	A	A	P
			06	Low, S	A	A	P
			07	Martin, A	A	A	P
			09	Chandy, K	A	A	P
			10	Bruck, J	A	A	P
			11	Umans, C	A	A	P
			12	Winfree, E	A	A	P
			14	Perona, P	A	A	P
			17	Wierman, A	A	A	P
			18	Kitaev, A	A	A	P

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<b>COMPUTER SCIENCE</b>							
CS 280	+	Research in Computer Science	01	Martin, A	A	A	P
			02	Schroeder, P	A	A	P
			04	Barr, A	A	A	P
			05	Winfree, E	A	A	P
			06	Yue, Y	A	A	P
			07	Perona, P	A	A	P
			08	Vidick, T	A	A	P
			11	Abu-Mostafa, Y	A	A	P
			12	Chandy, K	A	A	P
			13	Umans, C	A	A	P
			14	Bruck, J	A	A	P
			15	Low, S	A	A	P
			17	Anandkumar, A	A	A	P
			19	Kitaev, A	A	A	P
20	Wierman, A	A	A	P			
21	Gkioxari, G	A	A	P			
<b>COMPUTING AND MATHEMATICAL SCIENCES</b>							
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
			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

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<b>COMPUTING AND MATHEMATICAL SCIENCES</b>							
CMS300	+	Research in Computing and Mathematical Sciences	17	Yue, Y	A	A	P
			18	Pachter, L	A	A	P
			19	Anandkumar, A	A	A	P
			20	Stuart, A	A	A	P
			21	Thomson, M	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>							
CDS300	+	Research in Control and Dynamical Systems	01	Perona, P	A	A	P
			02	Murray, R	A	A	P
			03	Quartz, S	A	A	P
			04	Doyle, J	A	A	P
			05	Beck, J	A	A	P
			06	Owhadi, H	A	A	P
			07	Burdick, J	A	A	P
			09	Siapas, A	A	A	P
			10	Elowitz, M	A	A	P
			11	Goentoro, L	A	A	P
			14	Dickinson, M	A	A	P
			15	Ortiz, M	A	A	P
			17	Adolphs, R	A	A	P
			18	Ames, A	A	A	P
			19	Chung, S	A	A	P
			20	Schroeder, P	A	A	P
<b>ECONOMICS</b>							
Ec 097	+	Undergraduate Research	01	Staff	A	A	P
<b>ELECTRICAL ENGINEERING</b>							

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<b>ELECTRICAL ENGINEERING</b>							
EE 099	+	Advanced Work in Electrical Engineering	01	Scherer, A	A	A	P
			02	Low, S	A	A	P
			03	Chandrasekaran, V	A	A	P
EE 291	+	Advanced Work in Electrical Engineering	01	Hassibi, B	A	A	P
			02	Vidick, T	A	A	P
			03	Murray, R	A	A	P
			04	Wang, L	A	A	P
			06	Abu-Mostafa, Y	A	A	P
			07	Hajimiri, S	A	A	P
			08	Tai, Y	A	A	P
			09	Quartz, S	A	A	P
			10	Cvitanic, J	A	A	P
			11	Hoffmann, M	A	A	P
			12	Faraon, A	A	A	P
			13	Doyle, J	A	A	P
			14	Scherer, A	A	A	P
			15	Pellegrino, S	A	A	P
			16	Avouac, J	A	A	P
			17	Roukes, M	A	A	P
			18	Vahala, K	A	A	P
			19	Chandrasekaran, V	A	A	P
			20	Gharib, M	A	A	P
			21	Weinreb, S	A	A	P
			22	Hallinan, G	A	A	P
			23	Yang, C	A	A	P
			24	Hallinan, G	A	A	P
			25	Martin, A	A	A	P
			26	Effros, M	A	A	P
			27	Yariv, A	A	A	P
			28	Vaidyanathan, P	A	A	P
			29	Marandi, A	A	A	P
			30	Abu-Mostafa, Y	A	A	P
			31	Burdick, J	A	A	P



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<b>ELECTRICAL ENGINEERING</b>							
EE 291	+	Advanced Work in Electrical Engineering	32	Perona, P	A	A	P
			33	Minnich, A	A	A	P
			34	Kostina, V	A	A	P
			35	Bruck, J	A	A	P
			36	Low, S	A	A	P
			37	Yue, Y	A	A	P
			38	Yeh, N	A	A	P
			39	Greer, J	A	A	P
			40	Meister, M	A	A	P
			42	Atwater, H	A	A	P
			43	Zmuidzinas, J	A	A	P
			44	Emami, A	A	A	P
			45	George, G	A	A	P
			46	Painter, O	A	A	P
			47	Mirhosseini, M	A	A	P
<b>ENGLISH</b>							
En 098	+	Reading in English	01	Staff	A	A	P
<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
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	Hoffmann, M	A	A	P
			04	Schneider, T	A	A	P
			05	Seinfeld, J	A	A	P
			06	Sessions, A	A	A	P
			07	Wennberg, P	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

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<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
ESE106	+	Research in Environmental Science and Engineering	06	Hoffmann, M	A	A	P
			07	Ingersoll, A	A	A	P
			08	Lamb, M	A	A	P
			09	Leadbetter, J	A	A	P
			10	Newman, D	A	A	P
			11	Okumura, M	A	A	P
			12	Orphan, V	A	A	P
			13	Schneider, T	A	A	P
			14	Seinfeld, J	A	A	P
			15	Sessions, A	A	A	P
			16	Wennberg, P	A	A	P
			17	Yung, Y	A	A	P
			18	Thompson, A	A	A	P
			19	Frankenberg, C	A	A	P
			20	Callies, J	A	A	P
			21	Karthikeyan, S	A	A	P
ESE200	+	Advanced Topics in Environmental Science and Engineering	02	Leadbetter, J	A	A	P
			03	Flagan, R	A	A	P
			04	Hoffmann, M	A	A	P
			05	Seinfeld, J	A	A	P
			06	Newman, D	A	A	P
			07	Okumura, M	A	A	P
			08	Sessions, A	A	A	P
			09	Yung, Y	A	A	P
			10	Orphan, V	A	A	P
			11	Fu, X / Frankenberg, C / Murray, R	A	A	P
			Ge/ESE 298	+	Mentoring and Outreach	01	Newman, D
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

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<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>										
ESE300	+	Thesis Research	01	Yung, Y	A	A	P			
			04	Wennberg, P	A	A	P			
			05	Seinfeld, J	A	A	P			
			06	Leadbetter, J	A	A	P			
			08	Schneider, T	A	A	P			
			09	Seinfeld, J	A	A	P			
			10	Flagan, R	A	A	P			
			11	Eiler, J	A	A	P			
			12	Hoffmann, M	A	A	P			
			13	Newman, D	A	A	P			
			14	Adkins, J	A	A	P			
			15	Hunt, M	A	A	P			
			16	Sessions, A	A	A	P			
			17	Adkins, J	A	A	P			
			18	Callies, J	A	A	P			
			19	Ingersoll, A	A	A	P			
			20	Okumura, M	A	A	P			
			21	Bordoni, S	A	A	P			
			22	Thompson, A	A	A	P			
			23	Frankenberg, C	A	A	P			
			24	Orphan, V	A	A	P			
			25	Karthikeyan, S	A	A	P			
			<b>GEOLOGY</b>							
			Ge 040	+	Special Problems for Undergraduates	03	Kirschvink, J	A	A	P
						05	Rossmann, G	A	A	P
09	Lamb, M	A				A	P			
11	Ingersoll, A	A				A	P			
12	Kirschvink, J	A				A	P			
Ge 120B	+	Field Geology: Summer Field Camp	01	Buchholz, C	A	A	P			

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<b>GEOLOGY</b>							
Ge 197	0-0-0	Special Topics in Geobiology: Introduction to Soil Science <i>taught concurrently with ESE 200, section 11 // 2 units // class runs Sept. 19th - 23rd, 2022 (mornings)</i>	01	Fu, X / Frankenberg, C / Fischer, W	A	A	
Ge 297	+	Advanced Study	01	Ehlmann, B	A	A	P
			02	Batygin, K	A	A	P
			03	Zhan, Z	A	A	P
			04	Rossman, G	A	A	P
			05	Lapusta, N	A	A	P
			06	Bucholz, C	A	A	P
			07	Leadbetter, J	A	A	P
			08	Eiler, J	A	A	P
			09	Blake, G	A	A	P
			10	Tissot, F	A	A	P
			11	Stock, J	A	A	P
			13	Kirschvink, J	A	A	P
			14	Farley, K	A	A	P
			15	de Kleer, K	A	A	P
			16	Ingersoll, A	A	A	P
			18	Fischer, W	A	A	P
			19	Sessions, A	A	A	P
			20	Gurnis, M	A	A	P
			21	Howard, A	A	A	P
			22	Orphan, V	A	A	P
			23	Avouac, J	A	A	P
			25	Clayton, R	A	A	P
			26	Adkins, J	A	A	P
			27	Yung, Y	A	A	P
			28	Bordoni, S	A	A	P
			30	Brown, M	A	A	P
			31	Stolper, E	A	A	P
			32	Stevenson, D	A	A	P

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<b>GEOLOGY</b>							
Ge 297	+	Advanced Study	34	Wernicke, B	A	A	P
			35	Newman, D	A	A	P
			37	Simons, M	A	A	P
			38	Kulkarni, S	A	A	P
			39	Eiler, J	A	A	P
			40	Asimow, P	A	A	P
			41	Wennberg, P	A	A	P
			42	Orphan, V	A	A	P
			43	Grotzinger, J	A	A	P
			44	Jackson, J	A	A	P
			46	Lamb, M	A	A	P
			48	Knutson, H	A	A	P
			49	Ross, Z	A	A	P
Ge/ESE 298	+	Mentoring and Outreach	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	Ehlmann, B	A	A	P
			02	Adkins, J	A	A	P
			03	Fischer, W	A	A	P
			04	Brown, M	A	A	P
			05	Ross, Z	A	A	P
			06	Ingersoll, A	A	A	P
			07	Blake, G	A	A	P
			08	Tissot, F	A	A	P
			09	Kulkarni, S	A	A	P
			10	Stock, J	A	A	P
			11	Lapusta, N	A	A	P
			12	Lamb, M	A	A	P
			13	Avouac, J	A	A	P
			14	Bucholz, C	A	A	P

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<b>GEOLOGY</b>							
Ge 299	+	Thesis Research	15	Wernicke, B	A	A	P
			16	Knutson, H	A	A	P
			17	Rossmann, G	A	A	P
			18	Batygin, K	A	A	P
			19	Newman, D	A	A	P
			20	Farley, K	A	A	P
			21	Eiler, J	A	A	P
			22	Gurnis, M	A	A	P
			23	Orphan, V	A	A	P
			24	Schneider, T	A	A	P
			25	Stevenson, D	A	A	P
			26	Stolper, E	A	A	P
			27	Yung, Y	A	A	P
			28	Clayton, R	A	A	P
			30	Zhan, Z	A	A	P
			31	Kirschvink, J	A	A	P
			32	Farley, K	A	A	P
			33	Heaton, T	A	A	P
			34	de Kleer, K	A	A	P
			35	Simons, M	A	A	P
			36	Asimow, P	A	A	P
37	Sessions, A	A	A	P			
38	Grotzinger, J	A	A	P			
39	Jackson, J	A	A	P			
41	Bordoni, S	A	A	P			
<b>HISTORY</b>							
H 098	+	Reading in History	01	Staff	A	A	P
H 099A	1-0-8	Research Tutorial	01	Staff	A	A	
<b>HISTORY AND PHILOSOPHY OF SCIENCE</b>							

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<b>HISTORY AND PHILOSOPHY OF SCIENCE</b>							
HPS098	+	Reading in History and Philosophy of Science	01	Kormos-Buchwald, D	A	A	P
<b>MATERIALS SCIENCE</b>							
MS 100	+	Advanced Work in Materials Science	01	Fultz, B	A	A	P
			03	Johnson, W	A	A	P
MS 200	+	Advanced Work in Materials Science	01	Johnson, W	A	A	P
			02	Minnich, A	A	A	P
			03	Bhattacharya, K	A	A	P
			04	Fultz, B	A	A	P
			05	Atwater, H	A	A	P
			06	Goddard, W	A	A	P
			07	Faber, K	A	A	P
			08	Bernardi, M	A	A	P
			09	Blake, G	A	A	P
			10	Yeh, N	A	A	P
			12	See, K	A	A	P
			13	Ortiz, M	A	A	P
			14	Kornfield, J	A	A	P
			15	Lewis, N	A	A	P
			16	Cushing, S	A	A	P
			MS 300	+	Thesis Research	01	Johnson, W
03	Cushing, S	A				A	P
04	Goddard, W	A				A	P
05	Fultz, B	A				A	P
06	Atwater, H	A				A	P

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<b>MATERIALS SCIENCE</b>							
MS 300	+	Thesis Research	07	Lewis, N	A	A	P
			08	Bhattacharya, K	A	A	P
			09	Minnich, A	A	A	P
			10	Rosakis, A	A	A	P
			14	Bernardi, M	A	A	P
			15	Greer, J	A	A	P
			16	Faber, K	A	A	P
			17	See, K	A	A	P
			18	Faraon, A	A	A	P
			19	Falson, J	A	A	P
			20	Gao, W	A	A	P
<b>MATHEMATICS</b>							
Ma 097	+	Research in Mathematics	01	Ervin, G	A	A	P
Ma 098	+	Independent Reading	01	Graber, T	A	A	P
			02	Tamuz, O	A	A	P
Ma 290	+	Reading	01	Cvitanic, J	A	A	P
			02	Flach, M	A	A	P
			03	Hutcherof, T	A	A	P
			04	Graber, T	A	A	P
			05	Gukov, S	A	A	P
			06	Katz, N	A	A	P
			07	Kechris, A	A	A	P
			08	Makarov, N	A	A	P
			09	Mantovan, E	A	A	P
			10	Marcolli, M	A	A	P
			11	Isett, P	A	A	P
			12	Ni, Y	A	A	P
			13	Owhadi, H	A	A	P
			14	Rains, E	A	A	P
			15	Ramakrishnan, D	A	A	P



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<b>MATHEMATICS</b>							
Ma 290	+	Reading	16	Tamuz, O	A	A	P
			17	Zhu, X	A	A	P
			18	Staff	A	A	P
Ma 390	+	Research	01	Cvitanic, J	A	A	P
			02	Flach, M	A	A	P
			03	Hutcherof, T	A	A	P
			04	Graber, T	A	A	P
			05	Gukov, S	A	A	P
			06	Katz, N	A	A	P
			07	Kechris, A	A	A	P
			08	Makarov, N	A	A	P
			09	Mantovan, E	A	A	P
			10	Marcolli, M	A	A	P
			11	Isett, P	A	A	P
			12	Ni, Y	A	A	P
			13	Owhadi, H	A	A	P
			14	Rains, E	A	A	P
			15	Ramakrishnan, D	A	A	P
			16	Tamuz, O	A	A	P
			17	Zhu, X	A	A	P
			18	Radziwill, M	A	A	P
			19	Kapustin, A	A	A	P
			20	Staff	A	A	P
			21	Conlon, D	A	A	P
			22	Yu, T	A	A	P
<b>MECHANICAL ENGINEERING</b>							
ME 013	0-4-0	Mechanical Prototyping <i>Students must submit a questionnaire at <a href="https://registrar.caltech.edu/ME13-113SU2023">https://registrar.caltech.edu/ME13-113SU2023</a> by June 1st.</i>	01	Stovall, P	OM,W 13:00 - 14:55	B224 SPL	P
ME 023	0-4-0	CNC Machining <i>Students must submit a questionnaire at</i>	01	Stovall, P	OM,W 15:00 - 16:55	B224 SPL	P

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<b>MECHANICAL ENGINEERING</b>							
ME 100	+	Independent Studies in Mechanical Engineering	01	Daraio, C	A	A	P
			02	Hunt, M	A	A	P
			03	Mello, M	A	A	P
ME 110	+	Special Laboratory Work in Mechanical Engineering	01	Hunt, M	A	A	P
ME 113	0-4-0	Mechanical Prototyping <i>Students must submit a questionnaire available at <a href="https://registrar.caltech.edu/ME13-113SU2023">https://registrar.caltech.edu/ME13-113SU2023</a> by June 1st.</i>	01	Stovall, P	OM,W 13:00 - 14:55	B224 SPL	P
ME 123	0-4-0	CNC Machining <i>Students must submit a questionnaire at <a href="https://registrar.caltech.edu/ME23-123SU2023">https://registrar.caltech.edu/ME23-123SU2023</a> by June 1st.</i>	01	Stovall, P	OM,W 15:00 - 16:55	B224 SPL	P
ME 200	+	Advanced Work in Mechanical Engineering	01	Burdick, J	A	A	P
			02	Bhattacharya, K	A	A	P
			03	Ames, A	A	A	P
			04	Hunt, M	A	A	P
			06	Lapusta, N	A	A	P
			07	Colonus, T	A	A	P
			15	Ravichandran, G	A	A	P
ME 300	+	Research in Mechanical Engineering	01	Bae, H	A	A	P
			02	Andrade, J	A	A	P
			03	Ames, A	A	A	P
			06	Minnich, A	A	A	P
			07	Lewis, N	A	A	P
			08	Lapusta, N	A	A	P
			09	Scherer, A	A	A	P
			10	McKeon, B	A	A	P
			11	Schneider, T	A	A	P
			12	Heaton, T	A	A	P
			13	Stuart, A	A	A	P
			14	Gharib, M	A	A	P

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<b>MECHANICAL ENGINEERING</b>							
ME 300	+	Research in Mechanical Engineering	15	Fultz, B	A	A	P
			16	Atwater, H	A	A	P
			17	Chung, S	A	A	P
			18	Ismagilov, R	A	A	P
			19	Hunt, M	A	A	P
			20	Rosakis, A	A	A	P
			21	Burdick, J	A	A	P
			22	Pachter, L	A	A	P
			23	Ravichandran, G	A	A	P
			24	Murray, R	A	A	P
			25	Asimaki, D	A	A	P
			26	Avouac, J	A	A	P
			27	Shepherd, J	A	A	P
			28	Colonus, T	A	A	P
			30	Bhattacharya, K	A	A	P
			31	Bellan, P	A	A	P
			32	Brady, J	A	A	P
			34	Dickinson, M	A	A	P
			35	Greer, J	A	A	P
			36	Daraio, C	A	A	P
			38	Blanquart, G	A	A	P
39	Adkins, J	A	A	P			
40	Hoffmann, M	A	A	P			
41	Pellegrino, S	A	A	P			
42	Fu, X	A	A	P			
<b>MEDICAL ENGINEERING</b>							
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

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<b>MEDICAL ENGINEERING</b>							
MedE 291	+	Research in Medical Engineering	08	Hajimiri, S	A	A	P
			09	Scherer, A	A	A	P
			10	Tai, Y	A	A	P
			11	Yang, C	A	A	P
			12	Chandy, K	A	A	P
			14	Colonus, T	A	A	P
			16	Ismagilov, R	A	A	P
			17	Shapiro, M	A	A	P
			18	Wang, L	A	A	P
			19	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>NEUROBIOLOGY</b>							
BE/Bi/NB 203	6-0-0	Introduction to Programming for the Biological Sciences Bootcamp <i>Class meets June 20 - 24, 2023, from 9am to 6pm in CNRB 130</i>	01	Bois, J	A	A	P
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

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<b>NEUROBIOLOGY</b>							
NB 299	+	Graduate Research	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
			21	Wagenaar, D	A	A	P
			22	Zinn, K	A	A	P
			23	Yue, Y	A	A	P
			24	Parker, J	A	A	P
			25	Mazmanian, S	A	A	P
			<b>PHYSICS</b>				
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
			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

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<b>PHYSICS</b>							
Ph 171	+	Reading and Independent Study	21	Hutzler, N	A	A	P
			22	Kapustin, A	A	A	P
			23	Kimble, H	A	A	P
			24	Kitaev, A	A	A	P
			25	Knutson, H	A	A	P
			26	Libbrecht, K	A	A	P
			27	Martin, C	A	A	P
			28	Mawet, D	A	A	P
			29	Motrunich, O	A	A	P
			30	Nad Perge, S	A	A	P
			31	Newman, H	A	A	P
			32	Oguri, H	A	A	P
			33	Painter, O	A	A	P
			34	Patterson, R	A	A	P
			35	Phillips, R	A	A	P
			36	Phinney, E	A	A	P
			37	Politzer, H	A	A	P
			38	Porter, F	A	A	P
			39	Preskill, J	A	A	P
			40	Prince, T	A	A	P
			41	Refael, G	A	A	P
			42	Rosenbaum, T	A	A	P
			43	Roukes, M	A	A	P
			44	Scherer, A	A	A	P
			45	Schwab, K	A	A	P
			46	Schwarz, J	A	A	P
			47	Simmons-Duffin, D	A	A	P
			48	Spiropulu, M	A	A	P
			49	Stone, E	A	A	P
			50	Teukolsky, S	A	A	P
			51	Troian, S	A	A	P
			52	Weinstein, A	A	A	P
			53	Wise, M	A	A	P

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Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 171	+	Reading and Independent Study	54	Yeh, N	A	A	P
			55	Yue, Y	A	A	P
			56	Zmuidzinas, J	A	A	P
			57	Zurek, K	A	A	P
			58	McCuller, L	A	A	P
Ph 172	+	Research in Physics	01	Adhikari, R	A	A	P
			02	Atwater, H	A	A	P
			03	Bock, J	A	A	P
			04	Eisenstein, J	A	A	P
			05	Endres, M	A	A	P
			06	Filippone, B	A	A	P
			07	Golwala, S	A	A	P
			08	Harrison, F	A	A	P
			09	Hitlin, D	A	A	P
			10	Hsieh, D	A	A	P
			11	Hunt, M	A	A	P
			12	Hutzler, N	A	A	P
			13	Kimble, H	A	A	P
			15	Knutson, H	A	A	P
			16	Libbrecht, K	A	A	P
			17	Martin, C	A	A	P
			18	Mawet, D	A	A	P
			19	Nad Perge, S	A	A	P
			20	Newman, H	A	A	P
			21	Oguri, H	A	A	P
			22	Painter, O	A	A	P
			23	Patterson, R	A	A	P
			24	Phillips, R	A	A	P
			25	Porter, F	A	A	P
			26	Prince, T	A	A	P
			27	Rosenbaum, T	A	A	P
			28	Roukes, M	A	A	P
			29	Scherer, A	A	A	P

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<b>PHYSICS</b>							
Ph 172	+	Research in Physics	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	Cheung, C	A	A	P
			37	Chen, Y	A	A	P
			38	Chen, X	A	A	P
			39	Bernardi, M	A	A	P
			40	Guadalupe Dos Santos	A	A	P
				Lins Brandao, F			
			41	Refael, G	A	A	P
			42	Preskill, J	A	A	P
			43	Kapustin, A	A	A	P
			44	Hopkins, P	A	A	P
			45	Gukov, S	A	A	P
			46	Bellan, P	A	A	P
			47	Kasliwal, M	A	A	P
			48	Simmons-Duffin, D	A	A	P
			49	Wise, M	A	A	P
			50	Ravi, V	A	A	P
			51	Faraon, A	A	A	P
			52	Chan, G	A	A	P
			53	Alicea, J	A	A	P
			54	Zurek, K	A	A	P
			55	Chatzioannou, K	A	A	P
			56	Teukolsky, S	A	A	P
			58	Bradford, C	A	A	P
			59	Dore, O	A	A	P
			60	McCuller, L	A	A	P
			61	Motrunich, O	A	A	P



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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			
			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
			33	Oguri, H	A	A	P

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<b>PHYSICS</b>							
Ph 300	+	Thesis Research	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			
61	Zurek, K	A	A	P			
<b>POLITICAL SCIENCE</b>							
PS 097	+	Undergraduate Research	01	Staff	A	A	P
<b>SCIENTIFIC AND ENGINEERING COMMUNICATION</b>							

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<b>SCIENTIFIC AND ENGINEERING COMMUNICATION</b>							
SEC011	1-0-2	Written Academic Communication in Engineering and Applied Science <i>maximum enrollment: 20 students // open by application at <a href="https://registrar.caltech.edu/sec11">https://registrar.caltech.edu/sec11</a> to SURF students only. // Priority given to students in E&amp;AS</i>	01	Dabiri, M	M 10:00 - 10:55	104 WAT	G
<b>SOCIAL SCIENCE</b>							
SS 200	+	Selected Topics in Social Science	02	Camerer, C	A	A	P
			03	Plott, C	A	A	P
			06	Kiewiet, D	A	A	P
			07	Kousser, J	A	A	P
			11	Ordeshook, P	A	A	P
			13	Palfrey, T	A	A	P
			19	Alvarez, R	A	A	P
SS 300	+	Research in Social Science	01	Agranov, M	A	A	P
			02	Hoffman, P	A	A	P
			03	Tamuz, O	A	A	P
			04	Plott, C	A	A	P
			06	Palfrey, T	A	A	P
			07	Sherman, R	A	A	P
			08	Katz, J	A	A	P
			09	Echenique, F	A	A	P
			10	Shimojo, S	A	A	P
			12	Ordeshook, P	A	A	P
			13	Kiewiet, D	A	A	P
			14	Sprenger, C	A	A	P
			15	Cvitanic, J	A	A	P
			16	Kousser, J	A	A	P
17	Rangel, A	A	A	P			
18	Ewens, M	A	A	P			
19	Alvarez, R	A	A	P			
20	Camerer, C	A	A	P			

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<b>SOCIAL SCIENCE</b>							
SS 300	+	Research in Social Science	21	Pomatto, L	A	A	P
			23	Rosenthal, J	A	A	P
			25	Shum, M	A	A	P
			27	O'Doherty, J	A	A	P
			28	Hirsch, A	A	A	P
			30	Adolphs, R	A	A	P
			31	Mobbs, D	A	A	P
			32	Nielsen, K	A	A	P
<b>WRITING</b>							
Wr 109	3-0-3	Writing and Publishing Research Articles in STEM Fields <i>maximum enrollment: 15 students per section</i>	01	Burkett, E	TR 10:30 - 11:55	104 WAT	P
			02	Burkett, E	TR 13:00 - 14:25	104 WAT	P