

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

## KEY TO ABBREVIATIONS

### LOCATIONS

ANB	Annenberg Center for Information Science and Technology	L+R	Linde + Robinson Laboratory for Global Environmental Science
ARM	Arms Laboratory of Geological Sciences	LAU	Lauritsen Physics Laboratory
AVE	Avery House	MEAD	Undergraduate Chemistry Laboratory
BAC	Braun Athletic Center	MRE	Moore Laboratory
BAX	Baxter Hall of Humanities and Social Services	NMD	North Mudd Building of Geological Sciences
BBB	Beckman Laboratory of Behavioral Biology	NYS	Noyes Laboratory of Chemical Physics
BCK	Beckman Institute	NewMedia	NewMedia Classroom
BRD	Broad Center	OCCI	Occidental College
BRG	Bridge Laboratory of Physics	POLY	Polytechnic School
BRN	Braun Laboratory	PR	Public Relations
BRW	Brown Gym	PWL/BTH	Powell/Booth Laboratory
CHL	Cahill Center for Astronomy and Astrophysics	ROB	Robinson Laboratory of Astrophysics
CHR	Church Laboratory of Chemical Biology	SAC	Student Activities Center
CRL	Crellin Chemistry Laboratory	SCH	Schlinger Laboratory
DAB	Dabney Hall of Humanities	SFL	Sherman Fairchild Library
DWN	Downs Physics Laboratory	SLN	Sloan Laboratory of Mathematics and Physics
FIR	Firestone Flight Science Laboratory	SMD	South Mudd Building of Geophysics and Planetary Sciences
FLM	Fleming House	SPL	Spalding Laboratory of Chemical Engineering
GTS	Gates Chemical Laboratory	STL	Steele Laboratory of Electrical Engineering
GUG	Guggenheim Laboratory	STUD	Center for Student Services
JRG	Jorgensen Laboratory for Information Science	TCT	Theater Arts at Caltech (TACIT)
KAR	Karman Laboratory	TOM	Thomas Engineering Laboratory
KCK	Keck Engineering Laboratory	WAT	Watson Laboratory of Applied Physics
KLG	Kellogg Radiation Laboratory	WINN	Winnett Center
KRK	Kerckhoff Laboratory of Biological Sciences	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

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>AERONAUTICS</b>							
Ae 100	+	Research in Aerospace	01	Culick, F	A	A	P
			02	McKeon, B	A	A	P
			03	Dabiri, J	A	A	P
			04	Leonard, A	A	A	P
			05	Pellegrino, S	A	A	P
			06	Blanquart, G	A	A	P
			07	Shepherd, J	A	A	P
Ae/APh/CE/ME 101A	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	101 GUG	
Ae/AM/CE/ME 102A	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	101 GUG	G
Ae/APh 104A	3-0-6	Experimental Methods	01	Gharib, M	TR 10:30 - 11:55	202 GUG	G
Ae 105A	3-0-6	Aerospace Engineering	01	Davis, G / Kim, Y	TR 16:00 - 17:25	202 GUG	G
Ae 121A	3-0-6	Space Propulsion	01	Polk, J	OM,M 15:00 - 15:55	202 GUG	
Ae 150A	1-0-0	Aerospace Engineering Seminar	01	Meiron, D	M 13:00 - 13:55	101 GUG	P
EE/Ae 157A	3-0-6	Introduction to the Physics of Remote Sensing	01	van Zyl, J	MR 13:00 - 14:25	106 ANB	
Ae/Ge/ME 160A	3-0-6	Continuum Mechanics of Fluids and Solids	01	Kochmann, D	TR 14:30 - 15:55	206 TOM	G
Ae/CE 165A	2-2-5	Mechanics of Composite Materials and Structures	01	Pellegrino, S	OM,R 14:00 - 14:55	202 GUG	
Ae 200	+	Advanced Research in Aerospace	01	Bhattacharya, K	A	A	P
			02	McKeon, B	A	A	P
			03	Blake, G	A	A	P
			04	Dimotakis, P	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme			
<b>AERONAUTICS</b>										
Ae 200	+	Advanced Research in Aerospace	05	Gharib, M	A	A	P			
			06	Hornung, H	A	A	P			
			07	Leonard, A	A	A	P			
			08	Daraio, C	A	A	P			
			09	Ortiz, M	A	A	P			
			10	Pellegrino, S	A	A	P			
			11	Pullin, D	A	A	P			
			12	Ravichandran, G	A	A	P			
			13	Rosakis, A	A	A	P			
			14	Dabiri, J	A	A	P			
			15	Colonius, T	A	A	P			
			16	Shepherd, J	A	A	P			
			17	Blanquart, G	A	A	P			
			18	Lapusta, N	A	A	P			
			19	Troian, S	A	A	P			
			20	Schneider, T	A	A	P			
			21	Greer, J	A	A	P			
			22	Andrade, J	A	A	P			
			23	Kochmann, D	A	A	P			
			24	Gurnis, M	A	A	P			
			Ae 201A	3-0-6	Advanced Fluid Mechanics	01	Pullin, D	MWF 09:00 - 09:55	101 GUG	
			Ae 208A	1-0-0	GALCIT Colloquium	01	Pellegrino, S / Pullin, D	F 15:00 - 15:55	101 GUG	P
			Ae/AM/CE/ME 214A	3-0-6	Computational Solid Mechanics	01	Ortiz, M	MWF 13:00 - 13:55	306 FIR	
			Ae 233	3-0-6	Hydrodynamic Stability	01	Meiron, D	MWF 11:00 - 11:55	101 GUG	
<b>APPLIED &amp; COMPUTATIONAL MATH</b>										
ACM010	1-0-0	Introduction to Applied and Computational Mathematics	01	Hou, Y	F 12:00 - 12:55	105 ANB	P			

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>APPLIED &amp; COMPUTATIONAL MATH</b>							
ACM011	2-2-2	Introduction to Matlab and Mathematica	01	Farrell, B	W 19:00 - 20:55	142 KCK	
ACM095A	4-0-8	Introductory Methods of Applied Mathematics	01	Pierce, N	MWF 11:00 - 11:55 T 11:00 - 11:55	119 KRK 11 DWN	
			02	Pierce, N	MWF 11:00 - 11:55 F 14:00 - 14:55	119 KRK 103 DWN	
			03	Pierce, N	MWF 11:00 - 11:55 R 09:00 - 09:55	119 KRK 11 DWN	
			04	Pierce, N	MWF 11:00 - 11:55 R 11:00 - 11:55	119 KRK 142 KCK	
			05	Pierce, N	MWF 11:00 - 11:55 W 14:00 - 14:55	119 KRK 119 DWN	
			06	Pierce, N	MWF 11:00 - 11:55 T 13:00 - 13:55	119 KRK 11 DWN	
			07	Pierce, N	MWF 11:00 - 11:55 T 14:00 - 14:55	119 KRK 119 DWN	
			08	Pierce, N	MWF 11:00 - 11:55 M 15:00 - 15:55	119 KRK 102 STL	
			09	Pierce, N	MWF 11:00 - 11:55 R 16:00 - 16:55	119 KRK 119 DWN	
			10	Pierce, N	MWF 11:00 - 11:55 M 14:00 - 14:55	119 KRK 119 DWN	
			11	Pierce, N	MWF 11:00 - 11:55 T 16:00 - 16:55	119 KRK 119 DWN	
			12	Pierce, N	MWF 11:00 - 11:55	119 KRK	
ACM100A	4-0-8	Introductory Methods of Applied Mathematics	01	Pierce, N	MWF 11:00 - 11:55 T 11:00 - 11:55	119 KRK 11 DWN	
			02	Pierce, N	MWF 11:00 - 11:55 F 14:00 - 14:55	119 KRK 103 DWN	
			03	Pierce, N	MWF 11:00 - 11:55 R 09:00 - 09:55	119 KRK 11 DWN	
			04	Pierce, N	MWF 11:00 - 11:55	119 KRK	

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>APPLIED &amp; COMPUTATIONAL MATH</b>							
ACM100A	4-0-8	Introductory Methods of Applied Mathematics	04	Pierce, N	R 11:00 - 11:55	142 KCK	
			05	Pierce, N	MWF 11:00 - 11:55	119 KRK	
					W 14:00 - 14:55	119 DWN	
			06	Pierce, N	MWF 11:00 - 11:55	119 KRK	
					T 13:00 - 13:55	11 DWN	
			07	Pierce, N	MWF 11:00 - 11:55	119 KRK	
					T 14:00 - 14:55	119 DWN	
			08	Pierce, N	MWF 11:00 - 11:55	119 KRK	
					M 15:00 - 15:55	102 STL	
			09	Pierce, N	MWF 11:00 - 11:55	119 KRK	
					R 16:00 - 16:55	119 DWN	
					M 14:00 - 14:55	119 DWN	
		MWF 11:00 - 11:55	119 KRK				
		T 16:00 - 16:55	119 DWN				
		MWF 11:00 - 11:55	A				
ACM104	3-0-6	Linear Algebra and Applied Operator Theory <i>taught concurrently with AM 125A &amp; CDS201</i>	01	Beck, J	TR 10:30 - 11:55	105 ANB	
ACM106A	3-0-6	Introductory Methods of Computational Mathematics <i>class cancelled on 9/27/11 but will be in session on 9/29/11</i>	01	Bruno, O	TR 13:00 - 14:25	105 ANB	
ACM/EE 116	3-0-6	Introduction to Stochastic Processes and Modeling	01	Murray, R	TR 09:00 - 10:25	105 ANB	
Ma/ACM 144A	3-0-6	Probability <i>New time</i>	01	Alberts, T	TR 13:00 - 14:25	153 SLN	
ACM190	+	Reading and Independent Study	01	Hou, Y	A	A	P
			02	Hassibi, B	A	A	P
			03	Espanol, M	A	A	P
			04	Heaton, T	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>APPLIED &amp; COMPUTATIONAL MATH</b>							
ACM290	1-0-0	Applied and Computational Mathematics Colloquium <i>open to graduate students only</i>	01	Tropp, J	M 16:00 - 16:55	105 ANB	P
ACM300	+	Research in Applied and Computational Mathematics	01	Bruno, O	A	A	P
			02	Candes, E	A	A	P
			03	Desbrun, M	A	A	P
			04	Hou, Y	A	A	P
			06	Meiron, D	A	A	P
			07	Pierce, N	A	A	P
			08	Schroeder, P	A	A	P
			09	Owhadi, H	A	A	P
			10	Tropp, J	A	A	P
			11	Ho, T	A	A	P
			12	Hassibi, B	A	A	P
<b>APPLIED MECHANICS</b>							
Ae/AM/CE/ME 102A	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	101 GUG	G
AM 125A	3-0-6	Engineering Mathematical Principles <i>taught concurrently with ACM104 &amp; CDS201</i>	01	Beck, J	TR 10:30 - 11:55	105 ANB	G
AM/CE/ME 150A	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	A	A	P
AM/CE 151A	3-0-6	Dynamics and Vibration <i>taught concurrently with ME 66</i>	01	Heaton, T	MWF 10:00 - 10:55	206 TOM	G
AM 200	+	Special Problems in Advanced Mechanics	01	Staff	A	A	P
Ae/AM/CE/ME 214A	3-0-6	Computational Solid Mechanics	01	Ortiz, M	MWF 13:00 - 13:55	306 FIR	
AM 250	+	Research in Applied Mechanics	01	Beck, J	A	A	P
			02	Bhattacharya, K	A	A	P
			03	Daraio, C	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>APPLIED MECHANICS</b>							
AM 250	+	Research in Applied Mechanics	04	Andrade, J	A	A	P
			05	Avouac, J	A	A	P
			08	Murray, R	A	A	P
			09	Ortiz, M	A	A	P
			10	Phillips, R	A	A	P
			11	Ravichandran, G	A	A	P
<b>APPLIED PHYSICS</b>							
APh/EE 009A	2-2-2	Solid-State Electronics for Integrated Circuits	01	Scherer, A / Potter, K	TR 13:00 - 13:55	070 MRE	
APh017A	3-0-6	Thermodynamics	01	Vahala, K	TR 14:30 - 15:55	104 WAT	G
APh078A	0-9-0	Senior Thesis, Experimental	01	Painter, O	A	A	G
			02	Vahala, K	A	A	G
			03	Atwater, H	A	A	G
			04	Scherer, A	A	A	G
			05	Bellan, P	A	A	G
			06	Phillips, R	A	A	G
			07	Troian, S	A	A	G
			09	Lewis, N	A	A	G
			APh079A	0-9-0	Senior Thesis, Theoretical	01	Troian, S
APh100	+	Advanced Work in Applied Physics	01	Phillips, R	A	A	P
			02	Vahala, K	A	A	P
			03	Scherer, A	A	A	P
			04	Troian, S	A	A	P
			05	Guo, C	A	A	P
			06	Atwater, H	A	A	P
			07	Roukes, M	A	A	P
Ae/APh/CE/ME 101A	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	101 GUG	

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>APPLIED PHYSICS</b>							
Ae/APh 104A	3-0-6	Experimental Methods	01	Gharib, M	TR 10:30 - 11:55	202 GUG	G
APh105A	3-0-6	States of Matter	01	Johnson, W	MW 13:00 - 14:25	107 DWN	G
APh109	0-6-3	Introduction to the Micro/Nanofabrication Lab	01	Ghaffari, A	R 19:00 - 19:55	104 WAT	
APh110	2-0-0	Topics in Applied Physics	01	Bellan, P	M 12:00 - 12:55	104 WAT	P
APh114A	3-0-6	Solid-State Physics	01	Atwater, H	MWF 11:00 - 11:55	104 WAT	
APh/Ph 115	3-0-9	Physics of Momentum Transport in Hydrodynamic Systems <i>Movies, precepts or makeup classes held F 1-2:30pm</i>	01	Troian, S	TR 13:00 - 14:25	104 WAT	G
APh156A	3-0-6	Plasma Physics <i>Make-up class on Fridays, 2:30-4pm in 104 Watson</i>	01	Bellan, P	MW 14:30 - 15:55	104 WAT	G
APh190A	3-0-6	Quantum Electronics <i>Class cancelled</i>	01	Painter, O	MWF 10:00 - 10:55	104 WAT	G
APh200	+	Applied Physics Research	01	Atwater, H	A	A	P
			02	Bockrath, M	A	A	P
			03	Bellan, P	A	A	P
			04	Snyder, G	A	A	P
			05	Troian, S	A	A	P
			06	Fultz, B	A	A	P
			07	Johnson, W	A	A	P
			09	Daraio, C	A	A	P
			10	Refael, G	A	A	P
			20	Painter, O	A	A	P
			21	Phillips, R	A	A	P
			24	Roukes, M	A	A	P



**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>APPLIED PHYSICS</b>							
APh200	+	Applied Physics Research	26	Scherer, A	A	A	P
			31	Vahala, K	A	A	P
			32	Yariv, A	A	A	P
			41	Schwab, K	A	A	P
			42	Lewis, N	A	A	P
APh300	+	Thesis Research in Applied Physics	01	Atwater, H	A	A	P
			02	Fultz, B	A	A	P
			03	Bellan, P	A	A	P
			04	Bockrath, M	A	A	P
			05	Yariv, A	A	A	P
			06	Johnson, W	A	A	P
			08	Troian, S	A	A	P
			09	Painter, O	A	A	P
			10	Desbrun, M	A	A	P
			15	Phillips, R	A	A	P
			18	Roukes, M	A	A	P
			20	Scherer, A	A	A	P
			24	Vahala, K	A	A	P
			27	Painter, O	A	A	P
28	Schwab, K	A	A	P			
29	Chen, Y	A	A	P			
<b>ART HISTORY</b>							
Art070	3-0-6	Traditions of Japanese Art <i>Class cancelled.</i>	01	Wolfgram, J	TR 13:00 - 14:25	125 BAX	
Art169	3-0-6	The Arts of Dynastic China	01	Wolfgram, J	MW 16:30 - 17:55	125 BAX	
<b>ASTROPHYSICS</b>							
Ay 020	3-1-6	Basic Astronomy and the Galaxy	01	Johnson, J	M 15:00 - 15:55 WF 09:00 - 09:55	219 CHL 219 CHL	

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ASTROPHYSICS</b>							
Ay 043	+	Reading in Astronomy and Astrophysics	01	Scoville, N	A	A	P
Ay 078A	9-0-0	Senior Thesis	01	Steidel, C	A	A	P
			02	Hillenbrand, L	A	A	P
			04	Ellis, R	A	A	P
			05	Cohen, J	A	A	P
			06	Readhead, A	A	A	P
			07	Johnson, J	A	A	P
			08	Scoville, N	A	A	P
			09	Ott, C	A	A	P
Ay 101	3-2-6	Physics of Stars	01	Sargent, W	MTR 16:00 - 16:55	211 CHL	
Ay 121	3-0-6	Radiative Processes	01	Readhead, A	TF 10:00 - 10:55	219 CHL	
					R 13:00 - 13:55	219 CHL	
Ay 122A	3-0-6	Astronomical Measurements and Instrumentation	01	Steidel, C / Hillenbrand, L	M 14:00 - 15:25	370 CHL	
					T 11:00 - 12:25	219 CHL	
Ay 123	3-0-6	Structure and Evolution of Stars	01	Ellis, R / Cohen, J	TF 13:00 - 14:25	219 CHL	
					R 10:30 - 11:55	219 CHL	
Ge/Ay 133	3-0-6	The Formation and Evolution of Planetary Systems	01	Blake, G	MWF 10:00 - 10:55	176 SMD	
Ay 141A	1-0-2	Research Conference in Astronomy	01	Sargent, W / Scoville, N	F 16:00 - 16:55	370 CHL	P
Ay 142	+	Research in Astronomy and Astrophysics	01	Blain, A	A	A	P
			02	Martin, C	A	A	P
			03	Brown, M	A	A	P
			04	McKeown, R	A	A	P
			05	Hirata, C	A	A	P
			06	Djorgovski, S	A	A	P
			07	Ellis, R	A	A	P
			08	Hillenbrand, L	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ASTROPHYSICS</b>							
Ay 142	+	Research in Astronomy and Astrophysics	09	Kamionkowski, M	A	A	P
			10	Kulkarni, S	A	A	P
			11	Scoville, N	A	A	P
			12	Johnson, J	A	A	P
			16	Readhead, A	A	A	P
			17	Sargent, A	A	A	P
			18	Sargent, W	A	A	P
			19	Stevenson, D	A	A	P
			20	Benson, A	A	A	P
			21	Steidel, C	A	A	P
			22	Hirata, C	A	A	P
			25	Blake, G	A	A	P
			26	Soifer, B	A	A	P
			27	Zmuidzinas, J	A	A	P
29	Harrison, F	A	A	P			
Ay 143	+	Reading and Independent Study	01	Steidel, C	A	A	P
			02	Blain, A	A	A	P
<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
BMB/Bi/Ch 170A	3-1-5	Biochemistry and Biophysics of Macromolecules and Molecular Assemblies	01	Clemons, W	TR 10:30 - 11:55	151 CRL	G
BMB/Ch 178	3-0-6	Enzyme Kinetics and Mechanisms	01	Shan, S	WF 10:30 - 11:55	101 SCH	
BMB/Ch 202A	1-0-0	Biochemistry Seminar Course <i>Most sessions will take place on Thursdays. Specific dates TBA and will coincide with the dates of the Biochemistry Seminars. Students will meet with the Biochemistry seminar speaker in the discussion session for an hour and then attend the seminar at 4pm.</i>	01	Clemons, W	R 12:00 - 13:15	356 CRL	P
Bi/BMB 251A	1-0-0	Current Research in Cellular and Molecular Biology	01	Hay, B	W 12:00 - 12:55	24 BBB	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
BMB299	+	Graduate Research	01	Arnold, F	A	A	P
			02	Bjorkman, P	A	A	P
			03	Hoelz, A	A	A	P
			04	Campbell, J	A	A	P
			05	Phillips, R	A	A	P
			06	Davidson, E	A	A	P
			07	Dervan, P	A	A	P
			08	Dougherty, D	A	A	P
			09	Fraser, S	A	A	P
			10	Goddard, W	A	A	P
			11	Hsieh-Wilson, L	A	A	P
			12	Jensen, G	A	A	P
			13	Baltimore, D	A	A	P
			14	Davis, M	A	A	P
			15	Mayo, S	A	A	P
			16	Parker, C	A	A	P
			17	Hay, B	A	A	P
			18	Leadbetter, J	A	A	P
			19	Chan, D	A	A	P
			20	Cai, L	A	A	P
			21	Newman, D	A	A	P
			22	Kennedy, M	A	A	P
			23	Elowitz, M	A	A	P
			24	Patterson, P	A	A	P
			25	Lester, H	A	A	P
			26	Sternberg, P	A	A	P
			27	Meyerowitz, E	A	A	P
			28	Shan, S	A	A	P
			29	Wold, B	A	A	P
			30	Dunphy, W	A	A	P
			31	Heath, J	A	A	P
			32	Gray, H	A	A	P
			33	Gharib, M	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BIOCHEMISTRY &amp; MOLECULAR BIOPHYSICS</b>							
BMB299	+	Graduate Research	34	Rees, D	A	A	P
			35	Tirrell, D	A	A	P
			36	Barton, J	A	A	P
			37	Clemons, W	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
			43	Pierce, N	A	A	P
			44	Roukes, M	A	A	P
			45	Gray, H	A	A	P
			46	Varshavsky, A	A	A	P
			47	Goentoro, L	A	A	P
<b>BIOENGINEERING</b>							
BE 098	+	Undergraduate Research in Bioengineering <i>If your research advisor does not appear below, please contact the Office of the Registrar.</i>	01	Arnold, F	A	A	P
			02	Davidson, E	A	A	P
			03	Burdick, J	A	A	P
			06	Fraser, S	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	Mabuchi, H	A	A	P
			12	Pierce, N	A	A	P
			13	Pine, J	A	A	P
			14	Ponce, A	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

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BIOENGINEERING</b>							
BE 098	+	Undergraduate Research in Bioengineering <i>If your research advisor does not appear below, please contact the Office of the Registrar.</i>	22	Guo, C	A	A	P
			23	Elowitz, M	A	A	P
			24	Murray, R	A	A	P
			25	Bockrath, M	A	A	P
			26	Leadbetter, J	A	A	P
			27	Winfree, E	A	A	P
			28	Koch, C	A	A	P
			29	Rothmund, P	A	A	P
			30	Kornfield, J	A	A	P
			31	Baltimore, D	A	A	P
BE 100A	1-0-0	Bioengineering Lecture Series <i>Required for first year grad students in BE//See BE website for schedule</i>	01	Pierce, N	M 16:00 - 16:55	BCK	P
BE 141	3-0-6	Biomaterials: Science and Engineering <i>Class cancelled - postponed until winter term</i>	01	Ravi, V	TR 18:30 - 19:55	142 KCK	
BE 151	3-0-6	Bioengineering Principles and Practice in Molecular Biology	01	Lansford, R	TR 09:00 - 10:25	200 BRD	
ChE/BE 163	3-0-6	Introduction to Biomolecular Engineering	01	Arnold, F / Pierce, N	TR 13:00 - 14:25	106 SPL	G
BE 167	1-0-0	Topics in Bioengineering <i>Required for first year grad students in BE</i>	01	Pierce, N	T 15:00 - 15:55	200 BRD	P
BE/EE 189A	3-6-3	Design and Construction of Biodevices <i>Maximum Enrollment: 24 students</i>	01	Yang, C	MW 10:30 - 11:55	108 KCK	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	107 ANB	
BE 200	+	Research in Bioengineering	01	Arnold, F	A	A	P
			03	Burdick, J	A	A	P
			05	Dervan, P	A	A	P
			06	Fraser, S	A	A	P
			07	Gharib, M	A	A	P
			08	Hajimiri, S	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme			
<b>BIOENGINEERING</b>										
BE 200	+	Research in Bioengineering	09	Heath, J	A	A	P			
			10	Lester, H	A	A	P			
			11	Mabuchi, H	A	A	P			
			12	Pierce, N	A	A	P			
			13	Pine, J	A	A	P			
			14	Ponce, A	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	Smolke, C	A	A	P			
			22	Guo, C	A	A	P			
			23	Elowitz, M	A	A	P			
			24	Murray, R	A	A	P			
			25	Bockrath, M	A	A	P			
			26	Leadbetter, J	A	A	P			
			27	Winfree, E	A	A	P			
			28	Koch, C	A	A	P			
			29	Rothmund, P	A	A	P			
			30	Shimojo, S	A	A	P			
			31	Elowitz, M	A	A	P			
			32	Sternberg, P	A	A	P			
			<b>BIOLOGY</b>							
			Bi 002	1-0-2	Current Research in Biology	01	Elowitz, M	T 12:00 - 12:55	101 KRK	P
			Bi 022	+	Undergraduate Research	01	Adolphs, R	A	A	P
						02	Bronner-Fraser, M	A	A	P
						03	Allman, J	A	A	P
						04	Campbell, J	A	A	P
						05	Lester, H	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BIOLOGY</b>							
Bi 022	+	Undergraduate Research	06	Bjorkman, P	A	A	P
			07	Arnold, F	A	A	P
			08	Rothenberg, E	A	A	P
			09	Varshavsky, A	A	A	P
			10	Sternberg, P	A	A	P
			11	Fraser, S	A	A	P
			12	Meyerowitz, E	A	A	P
			13	Kennedy, M	A	A	P
			14	Mazmanian, S	A	A	P
			15	Winfree, E	A	A	P
			16	Fejes Toth, K	A	A	P
			22	Patterson, P	A	A	P
			23	Schuman, E	A	A	P
			24	Wold, B	A	A	P
			32	Goddard, W	A	A	P
			33	Elowitz, M	A	A	P
			37	Stathopoulos, A	A	A	P
			38	Chan, D	A	A	P
			39	Stevenson, D	A	A	P
			40	Parker, C	A	A	P
			41	Hay, B	A	A	P
			42	Smolke, C	A	A	P
			43	Shimojo, S	A	A	P
			44	Sauka-Spengler, T	A	A	P
			45	Clemons, W	A	A	P
			46	Baltimore, D	A	A	P
			47	Tirrell, D	A	A	P
			48	Anderson, D	A	A	P
			50	Koch, C	A	A	P
			51	Dabiri, J	A	A	P
			52	Prober, D	A	A	P
			53	Newman, D	A	A	P



CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BIOLOGY</b>							
Bi 090A	+	Undergraduate Thesis	01	Lester, H	A	A	P
			02	Davidson, E	A	A	P
			03	Sternberg, P	A	A	P
			04	Davis, M	A	A	P
Bi/Ch 110	4-0-8	Introduction to Biochemistry <i>Taught by Professor Richards and Biochemistry faculty</i>	01	Richards, J	TR 11:00 - 11:55 W 14:00 - 15:55	147 NYS 147 NYS	
Bi 122	3-0-6	Genetics	01	Hay, B	TR 13:00 - 14:25	119 KRK	G
Bi/Ch 132	3-0-6	Biophysics of Macromolecules	01	Beauchamp, J / Cai, L	TR 13:00 - 14:25	200 BRD	G
Bi 145A	4-0-5	Tissue and Organ Physiology <i>Note: Bi 145B will not be offered 2011-12</i>	01	Tydell, C	MW 19:00 - 20:25	119 KRK	
Bi/CNS 150	4-0-6	Introduction to Neuroscience	01	Lester, H / Adolphs, R	MWF 11:00 - 11:55	100 - Rock Auditorium BRD	
ESE/Bi 166	3-1-5	Microbial Physiology	01	Leadbetter, J	MWF 10:00 - 10:55	162 SMD	
BMB/Bi/Ch 170A	3-1-5	Biochemistry and Biophysics of Macromolecules and Molecular Assemblies	01	Clemons, W	TR 10:30 - 11:55	151 CRL	G
Bi 180	2-8-2	Methods in Molecular Genetics	01	Bertani, L	OM,M 14:00 - 14:55 MWF 14:00 - 14:55 MWF 15:00 - 16:55	101 KRK 101 KRK 317 KRK	P
CNS/Bi/Ph/CS 187	3-0-6	Neural Computation	01	Perona, P	TR 10:30 - 11:55	080 MRE	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	107 ANB	
Bi/CNS 216	2-0-4	Behavior of Mammals	01	Allman, J	W 14:30 - 15:55 F 14:00 - 15:55	200 BRD 200 BRD	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BIOLOGY</b>							
Bi 250A	3-0-6	Topics in Molecular and Cellular Biology	01	Prober, D	TR 12:00 - 13:25	151 BRN	P
Bi/BMB 251A	1-0-0	Current Research in Cellular and Molecular Biology	01	Hay, B	W 12:00 - 12:55	24 BBB	P
Bi 270	2-0-1	Special Topics in Biology: Host-microbial Interactions	01	Mazmanian, S / McFall- Ngai, M	F 14:00 - 16:55	151 BRN	P
Bi 299	+	Graduate Research	01	Kirschvink, J	A	A	P
			02	Baltimore, D	A	A	P
			03	Allman, J	A	A	P
			04	Anderson, D	A	A	P
			05	Arnold, F	A	A	P
			06	Baltimore, D	A	A	P
			07	Pierce, N	A	A	P
			08	Bjorkman, P	A	A	P
			09	Bronner-Fraser, M	A	A	P
			10	Campbell, J	A	A	P
			11	Chan, D	A	A	P
			12	Davidson, E	A	A	P
			13	Deshaies, R	A	A	P
			14	Dabiri, J	A	A	P
			15	Dunphy, W	A	A	P
			16	Fraser, S	A	A	P
			17	Gharib, M	A	A	P
			18	Kennedy, M	A	A	P
			19	Orphan, V	A	A	P
			20	Laurent, G	A	A	P
			21	Cai, L	A	A	P
			22	Guo, C	A	A	P
			23	Mayo, S	A	A	P
			24	Goentoro, L	A	A	P
			25	Newman, D	A	A	P
			26	Meyerowitz, E	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BIOLOGY</b>							
Bi 299	+	Graduate Research	27	Patterson, P	A	A	P
			28	Newman, H	A	A	P
			29	Adolphs, R	A	A	P
			30	Koch, C	A	A	P
			33	Schuman, E	A	A	P
			34	Shimojo, S	A	A	P
			35	Lester, H	A	A	P
			36	Sternberg, P	A	A	P
			37	Rothenberg, E	A	A	P
			38	Varshavsky, A	A	A	P
			39	Wold, B	A	A	P
			40	Zinn, K	A	A	P
			41	Jensen, G	A	A	P
			42	Heath, J	A	A	P
			44	Andersen, R	A	A	P
			45	Dickinson, M	A	A	P
			46	Leadbetter, J	A	A	P
			47	Winfree, E	A	A	P
			49	Prober, D	A	A	P
			50	Elowitz, M	A	A	P
			51	Stathopoulos, A	A	A	P
			52	Mazmanian, S	A	A	P
			53	Clemons, W	A	A	P
			54	Hay, B	A	A	P
			55	Aravin, A	A	A	P
			56	Dougherty, D	A	A	P
<b>BUSINESS ECONOMICS &amp; MANAGEMENT</b>							
BEM101	3-0-6	Introduction to Accounting <i>Maximum Enrollment: 55 students</i>	01	Wang, S	M 19:00 - 21:55	25 BAX	
BEM103	3-0-6	Introduction to Finance	01	Bossaerts, P	T 19:00 - 21:55 R 21:00 - 21:55	119 KRK 119 KRK	G

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>BUSINESS ECONOMICS &amp; MANAGEMENT</b>							
BEM/PS 126	3-0-6	Business and Public Policy <i>Class cancelled</i>	01	Snowberg, E	MW 13:00 - 14:25	210 BAX	
BEM190	+	Undergraduate Research Project	01	Pickar, K	A	A	P
			02	Rosenthal, J	A	A	P
			03	Bossaerts, P	A	A	P
<b>CHEMICAL ENGINEERING</b>							
ChE062	0-0-0	Separation Processes	01	Seinfeld, J	MWF 14:00 - 14:55	106 SPL	
ChE080	+	Undergraduate Research	01	Flagan, R	A	A	P
			02	Haile, S	A	A	P
			03	Fultz, B	A	A	P
			04	Lewis, N	A	A	P
			33	Atwater, H	A	A	P
			34	Seinfeld, J	A	A	P
			35	Arnold, F	A	A	P
			36	Tirrell, D	A	A	P
			37	Kornfield, J	A	A	P
			38	Giapis, K	A	A	P
			39	Smolke, C	A	A	P
ChE090A	+	Senior Thesis	01	Flagan, R	A	A	P
			02	Tirrell, D	A	A	P
			03	Arnold, F	A	A	P
			04	Kornfield, J	A	A	P
			05	Greer, J	A	A	P
Ch/ChE 091	2-0-1	Scientific Writing	01	Parker, C	M 13:00 - 14:55	101 SCH	
ChE103A	3-0-6	Transport Phenomena	01	Vicic, M	MWF 10:00 - 10:55	106 SPL	
ChE126	1-6-2	Chemical Engineering Laboratory	01	Vicic, M	MW 09:00 - 11:55	122 SPL	G
		<i>Maximum Enrollment: 6-9 students per section</i>	02	Vicic, M	TR 09:00 - 11:55	122 SPL	G

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CHEMICAL ENGINEERING</b>							
ChE126	1-6-2	Chemical Engineering Laboratory <i>Maximum Enrollment: 6-9 students per section</i>	03	Vicic, M	TR 13:00 - 15:55	122 SPL	G
ChE151A	3-0-9	Physical and Chemical Rate Processes	01	Brady, J	MWF 09:00 - 09:55	102 SPL	G
ChE152	3-0-6	Heterogeneous Kinetics and Reaction Engineering	01	Giapis, K	TR 09:00 - 10:25	106 SPL	G
ChE/BE 163	3-0-6	Introduction to Biomolecular Engineering	01	Arnold, F / Pierce, N	TR 13:00 - 14:25	106 SPL	G
ChE/Ch 165	3-0-6	Chemical Thermodynamics	01	Wang, Z	TR 10:30 - 11:55	106 SPL	G
ChE280	+	Chemical Engineering Research	01	Arnold, F	A	A	P
			02	Asthagiri, A	A	A	P
			03	Atwater, H	A	A	P
			04	Haile, S	A	A	P
			05	Pierce, N	A	A	P
			07	Brady, J	A	A	P
			08	Stoltz, B	A	A	P
			10	Davis, M	A	A	P
			11	Fultz, B	A	A	P
			12	Bercaw, J	A	A	P
			13	Flagan, R	A	A	P
			16	Giapis, K	A	A	P
			17	Goddard, W	A	A	P
			21	Kornfield, J	A	A	P
			22	Troian, S	A	A	P
			23	Lewis, N	A	A	P
			35	Seinfeld, J	A	A	P
			37	Tirrell, D	A	A	P
			38	Wang, Z	A	A	P
			40	Yung, Y	A	A	P
			42	Heath, J	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CHEMICAL ENGINEERING</b>							
ChE280	+	Chemical Engineering Research	43	Smolke, C	A	A	P
			44	Greer, J	A	A	P
			45	Miller, T	A	A	P
<b>CHEMISTRY</b>							
Ch 001A	3-0-3	General Chemistry	01	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 155 ARM	P
			02	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 125 BAX	P
			03	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 119 DWN	P
			04	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 22 GTS	P
			05	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 27 GTS	P
			06	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 024 KRK	P
			07	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 104 WAT	P
			08	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 102 STL	P
			09	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 11 DWN	P
			10	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 101 KRK	P
			11	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 151 BRN	P
			12	Lewis, N	MT 11:00 - 11:55 R 11:00 - 11:55	Lecture Hall BAX 119 KRK	P
Ch 003A	1-3-2	Fundamental Techniques of Experimental Chemistry <i>Maximum Enrollment: 20 students per section// Section 3 reserved for Freshmen</i>	01	Mendez, J	F 13:00 - 13:55 T 08:00 - 10:55	153 NYS 107 MEAD	P
			02	Mendez, J	F 13:00 - 13:55 T 13:00 - 15:55	153 NYS 107 MEAD	P

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CHEMISTRY</b>							
Ch 003A	1-3-2	Fundamental Techniques of Experimental Chemistry <i>Maximum Enrollment: 20 students per section// Section 3 reserved for Freshmen</i>	03	Mendez, J	F 13:00 - 13:55 T 19:00 - 21:55	153 NYS 107 MEAD	P
Ch 003X	1-3-2	Experimental Methods in Solar Energy Conversion <i>Maximum Enrollment: 16 students per section</i>	01 02	Mendez, J Mendez, J	W 09:00 - 09:55 W 13:00 - 15:55 W 09:00 - 09:55 R 08:00 - 10:55	151 CRL 107 MEAD 151 CRL 107 MEAD	
Ch 005B	1-6-2	Advanced Techniques of Synthesis and Analysis <i>OM at first of various Friday lectures at 2-3pm to arrange lab hours on Mondays and Fridays 8am-4pm/Thursdays 1-4pm</i>	01	Agapie, T	OM,F 14:00 - 14:55	MEAD	
Ch 008	1-6-2	Experimental Procedures of Synthetic Chemistry <i>Students will meet with instructor during the first lecture period to assign two lab periods.//Section times will be: Tuesdays 8- 11am; Tuesdays 1-4pm; Tuesdays 7-10pm; and Wednesdays 1-4pm.</i>	01	Mendez, J	M 14:00 - 14:55 A	151 CRL 105 MEAD	
Ch 010A	2-0-1	Frontiers in Chemistry <i>Lab tour times to be determined.</i>	01	Dervan, P / Hoelz, A	R 12:00 - 12:55 A	147 NYS A	P
Ch 015	0-6-4	Chemical Equilibrium and Analysis Laboratory <i>Contact Instructor if unable to attend OM meeting//Additional lab sections may be added to accommodate student schedules//Recitation tentatively F 11am-12pm//Lab MR 7-10pm</i>	01	Dalleska, N	OM,T 14:00 - 14:55 MR 19:00 - 21:55	151 CRL MEAD	G
Ch 021A	3-0-6	Physical Chemistry	01	Okumura, M	MWF 13:00 - 13:55	147 NYS	G
Ch 041A	3-0-6	Organic Chemistry	01	Dougherty, D	MWF 09:00 - 09:55	153 NYS	
Ch 080	+	Chemical Research	01 02 03	Stoltz, B Shan, S Peters, J	A A A	A A A	P P P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme			
<b>CHEMISTRY</b>										
Ch 080	+	Chemical Research	04	Kornfield, J	A	A	P			
			05	Blake, G	A	A	P			
			06	Lewis, N	A	A	P			
			07	Goddard, W	A	A	P			
			08	Beauchamp, J	A	A	P			
			09	Bercaw, J	A	A	P			
			10	Grubbs, R	A	A	P			
			11	Dervan, P	A	A	P			
			12	Dougherty, D	A	A	P			
			13	Arnold, F	A	A	P			
			14	Agapie, T	A	A	P			
			15	Reisman, S	A	A	P			
			16	Barton, J	A	A	P			
			17	Gray, H	A	A	P			
			18	Heath, J	A	A	P			
			Ch 081	+	Independent Reading in Chemistry	01	Bercaw, J	A	A	P
						02	Heath, J	A	A	P
						03	Virgil, S	A	A	P
04	Grubbs, R	A				A	P			
05	Gray, H	A				A	P			
22	Lewis, N	A				A	P			
Ch 082	+	Senior Thesis Research	01	Rees, D	A	A	P			
Ch/ChE 091	2-0-1	Scientific Writing	01	Parker, C	M 13:00 - 14:55	101 SCH				
Bi/Ch 110	4-0-8	Introduction to Biochemistry <i>Taught by Professor Richards and Biochemistry faculty</i>	01	Richards, J	TR 11:00 - 11:55	147 NYS				
					W 14:00 - 15:55	147 NYS				
Ch 112	3-0-6	Inorganic Chemistry	01	Bercaw, J	TR 09:00 - 10:25	147 NYS				



CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CHEMISTRY</b>							
Ch 121B	1-1-7	Atomic-Level Simulations of Materials and Molecules	01	Goddard, W	W 14:00 - 14:55	115 BCK	
Ch 122	3-0-6	Structure Determination by X-ray Crystallography	01	Day, M	MWF 10:00 - 10:55	115 BCK	G
Ch 125A	3-0-6	The Elements of Quantum Chemistry	01	McKoy, B	MWF 11:00 - 11:55	147 NYS	G
Bi/Ch 132	3-0-6	Biophysics of Macromolecules	01	Beauchamp, J / Cai, L	TR 13:00 - 14:25	200 BRD	G
Ch 143	3-0-6	NMR Spectroscopy for Structural Identification	01	Virgil, S	MWF 10:00 - 10:55	151 CRL	
ChE/Ch 165	3-0-6	Chemical Thermodynamics	01	Wang, Z	TR 10:30 - 11:55	106 SPL	G
BMB/Bi/Ch 170A	3-1-5	Biochemistry and Biophysics of Macromolecules and Molecular Assemblies	01	Clemons, W	TR 10:30 - 11:55	151 CRL	G
BMB/Ch 178	3-0-6	Enzyme Kinetics and Mechanisms	01	Shan, S	WF 10:30 - 11:55	101 SCH	
Ch 180	+	Chemical Research	01 02 21 22 38	Agapie, T Goddard, W Gray, H Lewis, N Weitekamp, D	A A A A A	A A A A A	P P P P P
BMB/Ch 202A	1-0-0	Biochemistry Seminar Course <i>Most sessions will take place on Thursdays. Specific dates TBA and will coincide with the dates of the Biochemistry Seminars. Students will meet with the Biochemistry seminar speaker in the discussion session for an hour and then attend the seminar at 4pm.</i>	01	Clemons, W	R 12:00 - 13:15	356 CRL	P
Ch 213A	1-0-11	Advanced Ligand Field Theory	01	Gray, H	F 13:00 - 13:55	408 BCK	G

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CHEMISTRY</b>							
Ch 242A	3-0-6	Chemical Synthesis <i>Lecture MWF 9-10am -- Recitation T 7-9pm -- Tutorial R 7-9pm</i>	01	Reisman, S	MWF 09:00 - 09:55 TR 19:00 - 20:55	147 NYS 147 NYS	
Ch 280	+	Chemical Research	01	Adkins, J	A	A	P
			02	Arnold, F	A	A	P
			03	Bjorkman, P	A	A	P
			04	Atwater, H	A	A	P
			05	Barton, J	A	A	P
			06	Beauchamp, J	A	A	P
			07	Bercaw, J	A	A	P
			08	Blake, G	A	A	P
			09	Wang, Z	A	A	P
			10	Smolke, C	A	A	P
			11	Shimojo, S	A	A	P
			12	Eiler, J	A	A	P
			13	Davis, M	A	A	P
			14	Dervan, P	A	A	P
			15	Dougherty, D	A	A	P
			16	Reisman, S	A	A	P
			17	Fraser, S	A	A	P
			18	Miller, T	A	A	P
			19	Clemons, W	A	A	P
			20	Goddard, W	A	A	P
			21	Gray, H	A	A	P
			22	Grubbs, R	A	A	P
			23	Heath, J	A	A	P
			24	Hsieh-Wilson, L	A	A	P
			25	Hoffmann, M	A	A	P
			26	Kornfield, J	A	A	P
			27	Kuppermann, A	A	A	P
			28	Lewis, N	A	A	P
			29	Peters, J	A	A	P
			30	Marcus, R	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CHEMISTRY</b>							
Ch 280	+	Chemical Research	31	Mayo, S	A	A	P
			32	Cai, L	A	A	P
			33	Okumura, M	A	A	P
			34	Ponce, A	A	A	P
			35	Peters, J	A	A	P
			36	Ismagilov, R	A	A	P
			38	Rees, D	A	A	P
			42	Seinfeld, J	A	A	P
			43	Stoltz, B	A	A	P
			44	Tirrell, D	A	A	P
			45	Roberts, J	A	A	P
			46	Weitekamp, D	A	A	P
			47	Wennberg, P	A	A	P
			48	Zewail, A	A	A	P
			49	Shan, S	A	A	P
50	Agapie, T	A	A	P			
<b>CIVIL ENGINEERING</b>							
CE 100	+	Special Topics in Civil Engineering	01	Staff	A	A	
Ae/APh/CE/ME 101A	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	101 GUG	
Ae/AM/CE/ME 102A	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	101 GUG	G
AM/CE/ME 150A	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	A	A	P
AM/CE 151A	3-0-6	Dynamics and Vibration <i>taught concurrently with ME 66</i>	01	Heaton, T	MWF 10:00 - 10:55	206 TOM	G
ME/CE 163	3-0-6	Mechanics and Rheology of Fluid-Infiltrated Porous Media	01	Andrade, J	TR 13:00 - 14:25	206 TOM	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CIVIL ENGINEERING</b>							
Ae/CE 165A	2-2-5	Mechanics of Composite Materials and Structures	01	Pellegrino, S	OM,R 14:00 - 14:55	202 GUG	
CE 200	+	Advanced Work in Civil Engineering	01	Staff	A	A	P
Ae/AM/CE/ME 214A	3-0-6	Computational Solid Mechanics	01	Ortiz, M	MWF 13:00 - 13:55	306 FIR	
CE 300	+	Research in Civil Engineering	01	Beck, J	A	A	P
			02	Hall, J	A	A	P
			03	Heaton, T	A	A	P
			04	Krishnan, S	A	A	P
			05	Lapusta, N	A	A	P
<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS100	1-0-0	Introduction to Computation and Neural Systems	01	Koch, C	W 19:00 - 19:55	200 BRD	P
Psy/CNS 105A	1.5-0-3.5	Frontiers in Neuroeconomics	01	O'Doherty, J	M 09:30 - 10:55	218 BAX	P
CNS/SS/Psy 110A	1.5-0-3.5	Cognitive Neuroscience Tools	01	Rangel, A	F 13:00 - 14:25	315 BAX	P
Bi/CNS 150	4-0-6	Introduction to Neuroscience	01	Lester, H / Adolphs, R	MWF 11:00 - 11:55	100 - Rock Auditorium BRD	
CS/CNS/EE 154	3-3-3	Artificial Intelligence <i>Class cancelled</i>	01	Krause, R	MW 14:30 - 15:55	105 ANB	
CS/CNS/EE 156B	3-0-6	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	105 ANB	
CS/CNS 171	3-6-3	Introduction to Computer Graphics Laboratory <i>Class will meet in ANB 213 on Wednesday, October 12th.</i>	01	Barr, A	MWF 15:00 - 15:55	107 ANB	
CNS180	+	Research in Computation and Neural Systems	01	Abu-Mostafa, Y	A	A	P
			02	Adami, C	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>COMPUTATION &amp; NEURAL SYS</b>							
CNS180	+	Research in Computation and Neural Systems	03	O'Doherty, J	A	A	P
			04	Andersen, R	A	A	P
			05	Shimojo, S	A	A	P
			06	Quartz, S	A	A	P
			07	Tsao, D	A	A	P
			08	Dickinson, M	A	A	P
			09	Zewail, A	A	A	P
			10	Koch, C	A	A	P
			11	Rangel, A	A	A	P
			12	Laurent, G	A	A	P
			13	Perona, P	A	A	P
			14	Camerer, C	A	A	P
			15	Elowitz, M	A	A	P
			16	Schuman, E	A	A	P
			17	Allman, J	A	A	P
			18	Siapas, A	A	A	P
			19	Fraser, S	A	A	P
			21	Winfree, E	A	A	P
			22	Wold, B	A	A	P
			25	Kennedy, M	A	A	P
26	Adolphs, R	A	A	P			
27	Pine, J	A	A	P			
28	Hoffmann, M	A	A	P			
29	Krause, R	A	A	P			
30	Prober, D	A	A	P			
CNS/Bi/Ph/CS 187	3-0-6	Neural Computation	01	Perona, P	TR 10:30 - 11:55	080 MRE	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	107 ANB	
Bi/CNS 216	2-0-4	Behavior of Mammals	01	Allman, J	W 14:30 - 15:55	200 BRD	
					F 14:00 - 15:55	200 BRD	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme			
<b>COMPUTATION &amp; NEURAL SYS</b>										
CNS280	+	Research in Computation and Neural Systems	01	Burdick, J	A	A	P			
			02	Adami, C	A	A	P			
			03	Koch, C	A	A	P			
			04	Andersen, R	A	A	P			
			05	Lester, H	A	A	P			
			06	O'Doherty, J	A	A	P			
			07	Bruck, J	A	A	P			
			08	Tsao, D	A	A	P			
			09	Koch, C	A	A	P			
			10	Konishi, M	A	A	P			
			11	Murray, R	A	A	P			
			12	Laurent, G	A	A	P			
			13	Perona, P	A	A	P			
			14	Scherer, A	A	A	P			
			15	Quartz, S	A	A	P			
			17	Shimojo, S	A	A	P			
			18	Siapas, A	A	A	P			
			19	Sternberg, P	A	A	P			
			20	Winfrey, E	A	A	P			
			21	Wold, B	A	A	P			
			22	Hoffmann, M	A	A	P			
			23	Dickinson, M	A	A	P			
			26	Adolphs, R	A	A	P			
			27	Desbrun, M	A	A	P			
			28	Goddard, W	A	A	P			
			<b>COMPUTER SCIENCE</b>							
			CS 001	3-4-2	Introduction to Computer Programming	01	Vanier, M	MW 14:00 - 14:55	119 KRK	P
			Ma/CS 006A	3-0-6	Introduction to Discrete Mathematics	01	Omar, M	MWF 13:00 - 13:55	151 SLN	

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>COMPUTER SCIENCE</b>							
CS 009	1-0-0	Introduction to Computer Science Research	01	Umans, C	W 19:30 - 20:25	105 ANB	P
CS 011	0-3-0	Computer Language Shop <i>CS 1 or instructor's permission is required.</i>	01	Pinkston, D / Vanier, M	OM,M 21:00 - 21:55	105 ANB	P
EE/CS 051	4-5-3	Principles of Microprocessor Systems	01	George, G	MWF 15:00 - 16:25	070 MRE	
EE/CS 053	0-12-0	Microprocessor Project Laboratory	01	George, G	OM,W 16:30 - 17:25	070 MRE	
CS 080A	+	Undergraduate Thesis	01	Winfree, E	A	A	P
			02	Chandy, K	A	A	P
			03	Desbrun, M	A	A	P
			04	Schroeder, P	A	A	P
			05	Wierman, A	A	A	P
CS 081A	+	Undergraduate Projects in Computer Science	01	Chandy, K	A	A	P
			02	Barr, A	A	A	P
			03	Chandy, K	A	A	P
			04	Murray, R	A	A	P
			05	Martin, A	A	A	P
CS 090	+	Undergraduate Reading in Computer Science	01	Chandy, K	A	A	P
			02	Schulman, L	A	A	P
			03	Low, S	A	A	P
			04	Djorgovski, S	A	A	P
			05	Winfree, E	A	A	P
			06	Schroeder, P	A	A	P
			07	Barr, A	A	A	P
			08	Krause, R	A	A	P
			09	Gray, H	A	A	P
			10	Ho, T	A	A	P
CS 101A	+	Special Topics in Computer Science <i>Section 1 topic: At the Intersection of Social and Information Sciences taught by Dr. Ligett (9</i>	01	Ligett, K	TR 13:00 - 14:25	314 ANB	
			02	Schulman, L	WF 11:00 - 11:55	314 ANB	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>COMPUTER SCIENCE</b>							
CS 103A	+	Reading in Computer Science	01	Umans, C	A	A	P
CS 116	3-0-6	Reasoning about Program Correctness	01	Joshi, R	TR 13:00 - 14:25	243 ANB	
CS 121	3-0-6	Introduction to Relational Databases	01	Pinkston, D	MWF 11:00 - 11:55	105 ANB	
CS/EE/Ma 129A	3-0-6	Information and Complexity	01	Winfree, E	TR 13:00 - 14:25	213 ANB	
Ec/CS 133	3-0-6	Electricity Markets	01	Ledyard, J	TR 14:30 - 15:55	25 BAX	
CS 141A	3-3-3	Distributed Computation Laboratory	01	Chandy, K	TR 14:30 - 15:55	213 ANB	
CS/EE 143	3-3-3	Communication Networks	01	Low, S	WF 10:30 - 11:55	213 ANB	
CS/CNS/EE 154	3-3-3	Artificial Intelligence <i>Class cancelled</i>	01	Krause, R	MW 14:30 - 15:55	105 ANB	
CS/CNS/EE 156B	3-0-6	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	105 ANB	
CS/CNS 171	3-6-3	Introduction to Computer Graphics Laboratory <i>Class will meet in ANB 213 on Wednesday, October 12th.</i>	01	Barr, A	MWF 15:00 - 15:55	107 ANB	
CS 177	3-3-3	Discrete Differential Geometry: Theory and Applications	01	Schroeder, P	TR 10:30 - 11:55	314 ANB	
CS 180	+	Master's Thesis Research	01	Martin, A	A	A	P
			02	Desbrun, M	A	A	P
			03	Low, S	A	A	P
			04	Chandy, K	A	A	P
			05	Wierman, A	A	A	P
			06	Umans, C	A	A	P



**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>COMPUTER SCIENCE</b>							
CS 180	+	Master's Thesis Research	07	Krause, R	A	A	P
			08	Barr, A	A	A	P
			09	Kitaev, A	A	A	P
			10	Perona, P	A	A	P
			12	Schroeder, P	A	A	P
			14	Winfree, E	A	A	P
CS 185A	3-3-3	Asynchronous VLSI Design Laboratory	01	Martin, A	MW 13:00 - 14:25	243 ANB	G
CNS/Bi/Ph/CS 187	3-0-6	Neural Computation	01	Perona, P	TR 10:30 - 11:55	080 MRE	
BE/CS/CNS/Bi 191A	3-0-6	Biomolecular Computation	01	Winfree, E	TR 10:30 - 11:55	107 ANB	
CS 280	+	Research in Computer Science	01	Abu-Mostafa, Y	A	A	P
			02	Chandy, K	A	A	P
			04	Troian, S	A	A	P
			07	Low, S	A	A	P
			08	Martin, A	A	A	P
			10	Perona, P	A	A	P
			11	Schroeder, P	A	A	P
			12	Schulman, L	A	A	P
			13	Cvitanić, J	A	A	P
			14	Umans, C	A	A	P
			15	Desbrun, M	A	A	P
16	Kitaev, A	A	A	P			
17	Wierman, A	A	A	P			
<b>CONTROL &amp; DYNAMICAL SYSTEMS</b>							
CDS090A	0-0-9	Senior Thesis in Control and Dynamical Systems	01	Murray, R	OM,M 15:00 - 15:55	106 ANB	G
CDS101	2-0-4	Design and Analysis of Feedback Systems	01	MacMynowski, D	MF 14:00 - 14:55	206 TOM	

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>CONTROL &amp; DYNAMICAL SYSTEMS</b>							
CDS110A	3-0-9	Introductory Control Theory	01	MacMynowski, D	MWF 14:00 - 14:55	206 TOM	
CDS190	+	Independent Work in Control and Dynamical Systems <i>offered Pass/Fail only</i>	01	Murray, R	A	A	P
CDS201	3-0-6	Linear Algebra and Applied Operator Theory <i>tuaght concurrently with AM 125A &amp; ACM104</i>	01	Beck, J	TR 10:30 - 11:55	105 ANB	
CDS212	3-0-6	Introduction to Modern Control	01	Doyle, J	TR 14:30 - 15:55	314 ANB	
CDS300A	+	Research in Control and Dynamical Systems	01	Dickinson, M	A	A	P
			02	Kuppermann, A	A	A	P
			03	Doyle, J	A	A	P
			04	Owhadi, H	A	A	P
			05	Schuman, E	A	A	P
			06	Dabiri, J	A	A	P
			07	Beck, J	A	A	P
			08	Murray, R	A	A	P
			09	Kuppermann, A	A	A	P
			10	Burdick, J	A	A	P
			11	Elowitz, M	A	A	P
			12	Desbrun, M	A	A	P
			13	Ortiz, M	A	A	P
<b>ECONOMICS</b>							
Ec 011	3-2-4	Introduction to Economics	01	Plott, C	MWF 13:00 - 13:55	Lecture Hall BAX	G
Ec 098A	+	Senior Research and Thesis	01	Makarov, N	A	A	P
			02	Ledyard, J	A	A	P
			03	Rangel, A	A	A	P
Ec 101	3-0-6	Selected Topics in Economics: At the Intersection of Social and Information Sciences <i>Offered concurrently as CS 101A, section 1</i>	01	Ligett, K	TR 13:00 - 14:25	314 ANB	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ECONOMICS</b>							
Ec 105	3-0-6	Industrial Organization	01	Shum, M	MW 10:30 - 11:55	210 BAX	
Ec/Psy 109A	1.5-0-3.5	Frontiers in Behavioral Economics	01	Camerer, C	W 13:00 - 14:25	228 BAX	P
Ec 121A	3-0-6	Theory of Value	01	Ortoleva, P	TR 10:30 - 11:55	228 BAX	
Ec 122	3-0-6	Econometrics <i>Maximum Enrollment: 35 students</i>	01	Sherman, R	TR 13:00 - 14:25	228 BAX	
Ec 131	3-0-6	Market Design <i>Maximum enrollment: 20 students</i>	01	Bossaerts, P	TR 13:00 - 14:25	218 BAX	G
Ec/CS 133	3-0-6	Electricity Markets	01	Ledyard, J	TR 14:30 - 15:55	25 BAX	
Ec/PS 160A	3-3-3	Laboratory Experiments in the Social Sciences <i>Taught concurrently with SS 260//Sec A required for Sections B and C//</i>	01	Plott, C	TR 09:00 - 10:25	210 BAX	G
Ec 181	3-0-6	Convex Analysis and Economic Theory	01	Border, K	MW 09:00 - 10:25	210 BAX	G
Ec/PS 190	+	Undergraduate Research	01	Border, K	A	A	P
			02	Goeree, J	A	A	P
			03	Rangel, A	A	A	P
			04	Ordeshook, P	A	A	P
			05	Kiewiet, D	A	A	P
			06	Ensminger, J	A	A	P
<b>ELECTRICAL ENGINEERING</b>							
APh/EE 009A	2-2-2	Solid-State Electronics for Integrated Circuits	01	Scherer, A / Potter, K	TR 13:00 - 13:55	070 MRE	
EE 044	3-0-6	Circuits and Systems	01	Hajimiri, S	TR 09:30 - 10:55	070 MRE	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ELECTRICAL ENGINEERING</b>							
EE/CS 051	4-5-3	Principles of Microprocessor Systems	01	George, G	MWF 15:00 - 16:25	070 MRE	
EE/CS 053	0-12-0	Microprocessor Project Laboratory	01	George, G	OM,W 16:30 - 17:25	070 MRE	
EE 080A	+	Senior Thesis	01	Potter, K	A	A	P
EE 091A	+	Experimental Projects in Electronic Circuits <i>Units by arrangement; 12 units minimum each term</i>	01	Megdal, B	OM,M 16:00 - 16:55	080 MRE	G
EE 099	+	Advanced Work in Electrical Engineering	01	Scherer, A	A	A	P
			02	Tai, Y	A	A	P
			03	Perona, P	A	A	P
			04	George, G	A	A	P
			06	Yang, C	A	A	P
			07	Burdick, J	A	A	P
EE 105A	1-0-0	Electrical Engineering Seminar	01	Hassibi, B	A	A	P
EST/EE/ME 109A	3-0-6	Energy	01	Rutledge, D	MWF 15:00 - 15:55	080 MRE	
EE 111	3-0-6	Signals, Systems and Transforms	01	Vaidyanathan, P	TR 13:00 - 14:25	080 MRE	
ACM/EE 116	3-0-6	Introduction to Stochastic Processes and Modeling	01	Murray, R	TR 09:00 - 10:25	105 ANB	
EE 119A	3-3-3	Advanced Digital Systems Design	01	George, G	MW 13:00 - 14:25	070 MRE	
EE/Ma 126A	3-0-6	Information Theory	01	Effros, M	MW 10:30 - 11:55	070 MRE	G
CS/EE/Ma 129A	3-0-6	Information and Complexity	01	Winfree, E	TR 13:00 - 14:25	213 ANB	

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ELECTRICAL ENGINEERING</b>							
CS/EE 143	3-3-3	Communication Networks	01	Low, S	WF 10:30 - 11:55	213 ANB	
CS/CNS/EE 154	3-3-3	Artificial Intelligence <i>Class cancelled</i>	01	Krause, R	MW 14:30 - 15:55	105 ANB	
CS/CNS/EE 156B	3-0-6	Learning Systems	01	Abu-Mostafa, Y	TR 14:30 - 15:55	105 ANB	
EE/Ae 157A	3-0-6	Introduction to the Physics of Remote Sensing	01	van Zyl, J	MR 13:00 - 14:25	106 ANB	
BE/EE 189A	3-6-3	Design and Construction of Biodevices <i>Maximum Enrollment: 24 students</i>	01	Yang, C	MW 10:30 - 11:55	108 KCK	
EE 291	+	Advanced Work in Electrical Engineering	01	Hoffmann, M	A	A	P
			02	Yang, C	A	A	P
			03	Bruck, J	A	A	P
			04	Burdick, J	A	A	P
			05	Ho, T	A	A	P
			06	Doyle, J	A	A	P
			07	Effros, M	A	A	P
			08	Psaltis, D	A	A	P
			09	Koch, C	A	A	P
			10	Martin, A	A	A	P
			11	Hajimiri, S	A	A	P
			12	Schulman, L	A	A	P
			13	Low, S	A	A	P
			14	McEliece, R	A	A	P
			15	Hassibi, B	A	A	P
			16	Murray, R	A	A	P
			17	Perona, P	A	A	P
			18	Vaidyanathan, P	A	A	P
			19	Psaltis, D	A	A	P
			20	Tai, Y	A	A	P
			21	Yariv, A	A	A	P

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ELECTRICAL ENGINEERING</b>							
EE 291	+	Advanced Work in Electrical Engineering	22	Quartz, S	A	A	P
			23	Rutledge, D	A	A	P
			24	Roukes, M	A	A	P
			25	Scherer, A	A	A	P
			26	Avouac, J	A	A	P
			27	Vahala, K	A	A	P
			28	Zmuidzinis, J	A	A	P
			29	Atwater, H	A	A	P
			30	Kimble, H	A	A	P
			31	Heath, J	A	A	P
			32	Weinreb, S	A	A	P
			33	Emami-Neyestanak, A	A	A	P
			34	George, G	A	A	P
			35	Abu-Mostafa, Y	A	A	P
			36	Painter, O	A	A	P
			37	Gharib, M	A	A	P
			38	Choo, H	A	A	P
			<b>ENERGY SCIENCE AND TECHNOLOGY</b>				
EST/EE/ME 109A	3-0-6	Energy	01	Rutledge, D	MWF 15:00 - 15:55	080 MRE	
<b>ENGINEERING</b>							
E 002	1-0-0	Frontiers in Engineering and Applied Science	01	Rosakis, A	W 12:00 - 12:55	105 ANB	P
E 010	1-0-2	Technical Seminar Presentations <i>Maximum enrollment: 6 students per section</i>	01	Fender, A	OM,T 20:00 - 20:55 M 09:00 - 09:55	142 KCK	G
			02	Fender, A	OM,T 20:00 - 20:55 M 10:00 - 10:55	142 KCK	G
			03	Fender, A	OM,T 20:00 - 20:55 M 11:00 - 11:55	142 KCK	G
			04	Fender, A	OM,T 20:00 - 20:55	142 KCK	G
					W 09:00 - 09:55	142 KCK	

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ENGINEERING</b>							
E 010	1-0-2	Technical Seminar Presentations <i>Maximum enrollment: 6 students per section</i>	05	Fender, A	OM,T 20:00 - 20:55	142 KCK	G
					W 10:00 - 10:55	142 KCK	
			06	Fender, A	OM,T 20:00 - 20:55	142 KCK	G
					W 11:00 - 11:55	142 KCK	
			07	Fender, A	OM,T 20:00 - 20:55	142 KCK	G
					F 09:00 - 09:55	142 KCK	
			08	Fender, A	OM,T 20:00 - 20:55	142 KCK	G
					F 10:00 - 10:55	142 KCK	
			09	Fender, A	OM,T 20:00 - 20:55	142 KCK	G
				F 11:00 - 11:55	142 KCK		
E 011	1-0-2	Written Technical Communication in Engineering and Applied Science	01	Readhead, C	A	A	
E/ME 105	3-0-6	Product Design for the Developing World	01	Pickar, K	MW 20:00 - 21:25	Classroom NewMedia	
E 150A	1-0-0	Engineering Seminar	01	Fultz, B	A	A	P
<b>ENGLISH</b>							
En 001A	3-0-6	English Composition for ESL Writers <i>Class meets in 19 Baxter on Thursday, September 29th.</i>	01	Youra, S	TR 14:30 - 15:55	218 SFL	
En 002	2-2-5	Introduction to College Writing	01	Youra, S	TR 09:00 - 10:25	117 DAB	
			02	Daley, C	TR 09:00 - 10:25	127 BAX	
			03	Daley, C	TR 14:30 - 15:55	151 BRN	
Hum/En 005	3-0-6	Major British Authors <i>Maximum enrollment: 15 students//Class closed to continuing students until term start.</i>	01	Gilmore, D	TR 14:30 - 15:55	27 GTS	P
			02	La Belle, J	TR 09:00 - 10:25	TR DAB	P
Hum/En 006	3-0-6	American Literature and Culture <i>Maximum Enrollment: 15 students per section//Class closed to continuing students until term start.</i>	01	Hunter, C	TR 14:30 - 15:55	117 DAB	P
			02	Jurca, C	TR 09:00 - 10:25	218 BAX	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ENGLISH</b>							
En 089	3-0-6	Writing the News: Journalistic Writing <i>Maximum Enrollment: 12 students</i>	01	Kipling, R	M 19:00 - 21:55	315 BAX	
En 098	+	Reading in English	01	Gilmartin, K	A	A	P
En 099A	1-0-8	Senior Tutorial for English Majors	01	Gilmartin, K	A	A	G
			02	Pigman, G	A	A	G
			03	Weinstein, C	A	A	G
			04	Gilmore, D	A	A	G
			05	Rosenstone, R	A	A	G
En 119	3-0-6	Displacement <i>Open by lottery only - See REGIS Home page for details // Maximum enrollment: 15 students</i>	01	Haugen, K	T 19:00 - 21:55	115 DAB	G
En 132	3-0-6	American Literature Until the Civil War <i>Maximum enrollment: 15 students // Class open during online registration</i>	01	Hunter, C	TR 10:30 - 11:55	218 BAX	G
En 141	3-0-6	James and Wharton	01	Jurca, C	TR 13:00 - 14:25	117 DAB	
En 186	3-0-6	The Novel of Education <i>Maximum enrollment: 20 students</i>	01	Gilmore, D	M 19:00 - 21:55	115 DAB	G
En/H 193	3-0-6	Cervantes, Truth or Dare: Don Quixote in an Age of Empire	01	Wey-Gomez, N	TR 13:00 - 14:25	210 BAX	
<b>ENGLISH AS A SECOND LANGUAGE</b>							
ESL101A	3-0-0	Oral Communication and Pronunciation <i>Class Begins week of October 4th</i>	01	Geasland, J	MW 17:00 - 18:30	127 BAX	P
<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
ESE090	+	Undergraduate Laboratory Research in Environmental Science and Engineering	01	Hoffmann, M	A	A	P
ESE100	+	Special Topics in Environmental Science and Engineering	01	Leadbetter, J	A	A	P
			02	Seinfeld, J	A	A	P



**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
ESE100	+	Special Topics in Environmental Science and Engineering	03	Schneider, T	A	A	P
			04	Hoffmann, M	A	A	P
			05	Yung, Y	A	A	P
			07	Wennberg, P	A	A	P
			08	Fischer, W	A	A	P
			09	Orphan, V	A	A	P
ESE101	3-0-6	Earth's Atmosphere <i>Replaces ESE/Ge 148a</i>	01	Schneider, T	MWF 14:00 - 14:55	162 SMD	
ESE102	3-0-6	Earth's Oceans <i>Replaces ESE/Ge 148b</i>	01	Adkins, J	MWF 13:00 - 13:55	215 NMD	
ESE104	1-0-0	Current Problems in Environmental Science and Engineering	01	Schneider, T	R 12:00 - 12:55	162 SMD	P
ESE105	+	Research in Environmental Science and Engineering	01	Adkins, J	A	A	P
			02	Blake, G	A	A	P
			03	Bordoni, S	A	A	P
			04	Eiler, J	A	A	P
			05	Flagan, R	A	A	P
			06	Hoffmann, M	A	A	P
			07	Ingersoll, A	A	A	P
			08	Lamb, M	A	A	P
			09	Leadbetter, J	A	A	P
			10	Newman, D	A	A	P
			11	Okumura, M	A	A	P
			12	Orphan, V	A	A	P
			13	Schneider, T	A	A	P
			14	Seinfeld, J	A	A	P
15	Sessions, A	A	A	P			
16	Wennberg, P	A	A	P			
17	Yung, Y	A	A	P			
ESE110A	1-0-0	Seminar in Environmental Science and Engineering	01	Adkins, J	W 16:00 - 16:55	365 SMD	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>ENVIRONMENTAL SCIENCE &amp; ENGINEERING</b>							
Ge/ESE 145	3-0-3	Isotopic Biogeochemistry Seminar	01	Sessions, A	M 14:00 - 14:55 T 13:00 - 15:55	015 NMD 015 NMD	
ESE/Bi 166	3-1-5	Microbial Physiology	01	Leadbetter, J	MWF 10:00 - 10:55	162 SMD	
ESE300	+	Thesis Research	01	Sessions, A	A	A	P
			02	Ingersoll, A	A	A	P
			03	Hering, J	A	A	P
			04	Hoffmann, M	A	A	P
			05	Bordoni, S	A	A	P
			06	Adkins, J	A	A	P
			08	Leadbetter, J	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	Eiler, J	A	A	P
			14	Orphan, V	A	A	P
			15	Okumura, M	A	A	P
			16	Ponce, A	A	A	P
			17	Thompson, A	A	A	P
<b>FILM</b>							
L/F 109	3-0-6	Introduction to French Cinema from Its Beginning to the Present	01	Orcel, C	M 16:00 - 17:25 R 19:00 - 20:25	115 DAB 115 DAB	
<b>FRESHMAN SEMINARS</b>							
FS 001	2-0-4	Freshman Seminar: Cosmic Explosions and Their Multi-Messenger Signals	01	Ott, C	W 13:00 - 14:55	319 CHL	P
FS 002	2-0-4	Freshman Seminar: The Origins of Ideas	01	Bruck, J	R 16:00 - 17:25	239 MRE	P

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>FRESHMAN SEMINARS</b>							
FS 003	2-0-4	Freshman Seminar: Cosmic Discovery <i>seats still available // contact instructor by email for class information // first meeting will be held 2nd week of classes</i>	01	Djorgovski, S	TF 13:30 - 14:25	208 CHL	P
FS/Ph 004	2-0-4	Freshman Seminar: Physics of the Large Hadron Collider	01	Weinstein, A	W 13:00 - 14:55	114 BRG	P
FS/Ph 009	2-0-4	Freshman Seminar: The Science of Music	01	Politzer, H	MF 09:00 - 09:55	248 LAU	P
FS/Ph 013	2-0-4	Freshman Seminar: Time, Love, and Memory	01	Pine, J	OM,T 16:00 - 16:55	248 LAU	P
FS/Ph 014	2-0-4	Freshman Seminar: Albatrosses, Beetles and Cetaceans	01	Stevenson, D	OM,M 15:00 - 15:55	215 NMD	P
<b>GEOLOGY</b>							
Ge 011A	3-3-3	Introduction to Earth and Planetary Sciences: Earth as a Planet <i>Field Trip: October 21-23</i>	01	Eiler, J	F 15:00 - 15:55 TR 13:00 - 13:55 W 19:00 - 20:55	215 NMD 215 NMD 267 ARM	
Ge 040	+	Special Problems for Undergraduates	01 02 03 04 05 06 07	Avouac, J Kirschvink, J Stock, J Lamb, M Adkins, J Jackson, J Ingersoll, A	A A A A A A A	A A A A A A A	P P P P P P P
Ge 041A	+	Undergraduate Research and Bachelor's Thesis	01 02 03 04 05 06 07	Orphan, V Saleeby, J Asimow, P Orphan, V Saleeby, J Stolper, E Brown, M	A A A A A A A	A A A A A A A	P P P P P P P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>GEOLOGY</b>							
Ge 041A	+	Undergraduate Research and Bachelor's Thesis	08	Grotzinger, J	A	A	P
			09	Stock, J	A	A	P
Ge 100A	1-0-0	Geology Club	01	Kirschvink, J	R 16:00 - 16:55	151 ARM	P
Ge 101	4-0-8	Introduction to Geology and Geochemistry <i>Field Trip: October 21-23</i>	01	Asimow, P	MTWR 11:00 - 11:55	251 ARM	
Ge 104	3-0-6	Introduction to Geobiology	01	Fischer, W	TR 19:00 - 20:25	267 ARM	
Ge 108	3-0-6	Applications of Physics to the Earth Sciences	01	Brown, M	T 13:00 - 14:25	162 SMD	
					R 09:30 - 10:55	162 SMD	
Ge 110	0-3-0	Geographic Information System for Geology and Planetary Sciences	01	Avouac, J	M 14:00 - 14:55	309 NMD	
					R 13:00 - 14:15	309 NMD	
Ge 112	3-5-4	Sedimentology and Stratigraphy <i>Field Trip Dates: 10/26/11 &amp; Nov 3-6</i>	01	Southard, J	T 09:00 - 10:25	267 ARM	
					W 14:00 - 16:55	267 ARM	
					F 11:00 - 12:25	267 ARM	
Ge 114A	3-4-2	Mineralogy	01	Rossman, G	MTR 15:00 - 15:55	251 ARM	
					TR 16:00 - 17:55	251 ARM	
Ge 114B	0-2-1	Mineralogy	01	Rossman, G	W 09:00 - 10:55	267 ARM	
Ge 121A	0-9-3	Advanced Field and Structural Geology <i>Field Trip Dates: #1 - October 13 (p.m.) to 16 (p.m.) // #2 - Oct 27 p.m. to Oct 30 p.m. // #3 - Nov 10 p.m. to Nov 13 p.m.</i>	01	Stock, J	OM,M 09:00 - 09:25	215 NMD	
Ge/Ay 133	3-0-6	The Formation and Evolution of Planetary Systems	01	Blake, G	MWF 10:00 - 10:55	176 SMD	
Ge 136A	1-0-2	Regional Field Geology of the Southwestern United States <i>Field Trip Dates: November 10-14 (tentative)</i>	01	Kirschvink, J	OM,M 09:30 - 09:55	215 NMD	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>GEOLOGY</b>							
Ge/ESE 145	3-0-3	Isotopic Biogeochemistry Seminar	01	Sessions, A	M 14:00 - 14:55 T 13:00 - 15:55	015 NMD 015 NMD	
Ae/Ge/ME 160A	3-0-6	Continuum Mechanics of Fluids and Solids	01	Kochmann, D	TR 14:30 - 15:55	206 TOM	G
Ge 161	3-0-6	Plate Tectonics	01	Stock, J	TR 09:00 - 10:25	215 NMD	
Ge 165	3-0-6	Geophysical Data Analysis	01	Clayton, R	MWF 09:00 - 09:55	162 SMD	
Ge 169A	+	Readings in Geophysics <i>Class cancelled</i>	01	Staff	A	A	P
Ge 191	0-0-0	Special Topics in Geochemistry <i>class cancelled</i>	01	Asimow, P	A	A	
Ge 194	3-6-0	Special Topics in the Planetary Sciences: Roving on the Moon <i>see instructor for class locations</i>	01	Brown, M	F 13:00 - 15:55	A	
Ge 195	+	Special Opportunities in Field Geology: Basement Structure, Geomorphology and Tectonic Development <i>Field Trip Dates: November 5-6</i>	01	Saleeby, J	A	A	P
Ge 270	3-0-6	Continental Tectonics	01	Wernicke, B	TR 10:30 - 11:55	318 NMD	
Ge 297	+	Advanced Study	01	Adkins, J	A	A	P
			02	Wennberg, P	A	A	P
			03	Clayton, R	A	A	P
			04	Asimow, P	A	A	P
			05	Blake, G	A	A	P
			06	Stock, J	A	A	P
			07	Eiler, J	A	A	P
			08	Farley, K	A	A	P
			09	Jackson, J	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>GEOLOGY</b>							
Ge 297	+	Advanced Study	10	Bordoni, S	A	A	P
			11	Gurnis, M	A	A	P
			12	Grotzinger, J	A	A	P
			13	Helmberger, D	A	A	P
			14	Rossmann, G	A	A	P
			15	Schneider, T	A	A	P
			16	Kirschvink, J	A	A	P
			17	Kulkarni, S	A	A	P
			18	Ingersoll, A	A	A	P
			19	Brown, M	A	A	P
			24	Saleeby, J	A	A	P
			26	Simons, M	A	A	P
			27	Stevenson, D	A	A	P
			29	Stolper, E	A	A	P
			30	Lamb, M	A	A	P
			31	Fischer, W	A	A	P
			35	Orphan, V	A	A	P
			36	Yung, Y	A	A	P
			37	Avouac, J	A	A	P
			38	Lapusta, N	A	A	P
39	Aharonson, O	A	A	P			
40	Wernicke, B	A	A	P			
41	Newman, D	A	A	P			
42	Sessions, A	A	A	P			
43	Ampuero Saenz, J	A	A	P			
Ge 299	+	Thesis Research	01	Adkins, J	A	A	P
			03	Heaton, T	A	A	P
			04	Asimow, P	A	A	P
			05	Blake, G	A	A	P
			06	Brown, M	A	A	P
			07	Clayton, R	A	A	P
			08	Eiler, J	A	A	P
			09	Grotzinger, J	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>GEOLOGY</b>							
Ge 299	+	Thesis Research	10	Gurnis, M	A	A	P
			11	Burnett, D	A	A	P
			12	Helmberger, D	A	A	P
			13	Ingersoll, A	A	A	P
			14	Jackson, J	A	A	P
			15	Simons, M	A	A	P
			16	Avouac, J	A	A	P
			17	Newman, D	A	A	P
			18	Ampuero Saenz, J	A	A	P
			19	Lapusta, N	A	A	P
			20	Rossmann, G	A	A	P
			22	Saleeby, J	A	A	P
			24	Sessions, A	A	A	P
			25	Stevenson, D	A	A	P
			26	Stock, J	A	A	P
			27	Stolper, E	A	A	P
			32	Wernicke, B	A	A	P
			34	Yung, Y	A	A	P
			35	Aharonson, O	A	A	P
36	Kirschvink, J	A	A	P			
37	Orphan, V	A	A	P			
38	Schneider, T	A	A	P			
<b>HISTORY</b>							
Hum/H 003A	3-0-6	European Civilization: The Classical and Medieval Worlds	01	Brown, W	TR 14:30 - 15:55	210 BAX	P
			02	Clark, K	TR 14:30 - 15:55	115 DAB	P
<i>Maximum Enrollment: 15 students per section//Class closed to continuing students until term start.</i>							
Hum/H 003B	3-0-6	European Civilization: Early Modern Europe	01	Dennison, T	TR 14:30 - 15:55	127 BAX	P
			02	Hoffman, P	TR 09:00 - 10:25	315 BAX	P
			03	Wey-Gomez, N	TR 09:00 - 10:25	115 DAB	P
<i>Maximum enrollment: 15 students//Class closed to continuing students until term start//section 1 - Letter with the option to P/F</i>							

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>HISTORY</b>							
Hum/H/HPS 010	3-0-6	Introduction to the History of Science <i>Maximum Enrollment: 15 students//Class closed to continuing students until term start.</i>	01	Huebner, M	M 19:00 - 21:55	117 DAB	P
H 098	+	Reading in History	01	Buchwald, J	A	A	P
			02	Clark, K	A	A	P
			03	Hoffman, P	A	A	P
H 099A	1-0-8	Research Tutorial	01	Hoffman, P	A	A	
			02	Brown, W	A	A	
			03	Kiewiet, D	A	A	
			04	Dennison, T	A	A	
			05	Brewer, J	A	A	
H 111	3-0-6	The Medieval Church <i>Maximum enrollment: 25 students // Class open during online registration</i>	01	Brown, W	MWF 13:00 - 13:55	218 BAX	
H/SS 124	3-0-6	Problems in Historical Demography <i>Maximum enrollment: 15 students // Class open during online registration</i>	01	Dennison, T	TR 10:30 - 11:55	210 BAX	G
HPS/H 186	3-0-6	The Sciences in the Romantic Era	01	Huebner, M	W 19:00 - 21:55	115 DAB	
H 187	3-0-6	The Constitution and the Early Republic <i>Maximum enrollment: 20 students // Class open during online registration // Pending Approval</i>	01	Schoeppner, M	TR 14:30 - 15:55	114 STL	G
En/H 193	3-0-6	Cervantes, Truth or Dare: Don Quixote in an Age of Empire	01	Wey-Gomez, N	TR 13:00 - 14:25	210 BAX	
<b>HISTORY AND PHILOSOPHY OF SCIENCE</b>							
Hum/H/HPS 010	3-0-6	Introduction to the History of Science <i>Maximum Enrollment: 15 students//Class closed to continuing students until term start.</i>	01	Huebner, M	M 19:00 - 21:55	117 DAB	P
HPS098	+	Reading in History and Philosophy of Science	01	Manning, G	A	A	P



CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>HISTORY AND PHILOSOPHY OF SCIENCE</b>							
HPS103	1-0-0	Public Lecture Series	01	Feingold, M	A	A	P
HPS/PI 120	3-0-6	Introduction to Philosophy of Science <i>Maximum enrollment: 20 students // Class open during online registration</i>	01	Velasco, J	TR 10:30 - 11:55	127 BAX	
HPS/PI 129	3-0-6	Introduction to Philosophy of Biology <i>Maximum enrollment: 20 students // Class open during online registration</i>	01	Velasco, J	TR 14:30 - 15:55	070 MRE	
HPS/H 186	3-0-6	The Sciences in the Romantic Era	01	Huebner, M	W 19:00 - 21:55	115 DAB	
<b>HUMANITIES</b>							
Hum/H 003A	3-0-6	European Civilization: The Classical and Medieval Worlds <i>Maximum Enrollment: 15 students per section//Class closed to continuing students until term start.</i>	01	Brown, W	TR 14:30 - 15:55	210 BAX	P
			02	Clark, K	TR 14:30 - 15:55	115 DAB	P
Hum/H 003B	3-0-6	European Civilization: Early Modern Europe <i>Maximum enrollment: 15 students//Class closed to continuing students until term start//section 1 - Letter with the option to P/F</i>	01	Dennison, T	TR 14:30 - 15:55	127 BAX	P
			02	Hoffman, P	TR 09:00 - 10:25	315 BAX	P
			03	Wey-Gomez, N	TR 09:00 - 10:25	115 DAB	P
Hum/En 005	3-0-6	Major British Authors <i>Maximum enrollment: 15 students//Class closed to continuing students until term start.</i>	01	Gilmore, D	TR 14:30 - 15:55	27 GTS	P
			02	La Belle, J	TR 09:00 - 10:25	TR DAB	P
Hum/En 006	3-0-6	American Literature and Culture <i>Maximum Enrollment: 15 students per section// Class closed to continuing students until term start.</i>	01	Hunter, C	TR 14:30 - 15:55	117 DAB	P
			02	Jurca, C	TR 09:00 - 10:25	218 BAX	P
Hum/PI 008	3-0-6	Right and Wrong <i>Maximum enrollment: 15 students per section//Class closed to continuing students until term start.</i>	01	Cowie, F	TR 09:00 - 10:25	237 BAX	P
			02	Cowie, F	TR 14:30 - 15:55	237 BAX	P

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>HUMANITIES</b>							
Hum/PI 009	3-0-6	Knowledge and Reality <i>Maximum enrollment: 15 students per section//Class closed to continuing students until term start.</i>	01	Manning, G	TR 09:00 - 10:25	128 BAX	P
			02	Manning, G	TR 14:30 - 15:55	128 BAX	P
Hum/H/HPS 010	3-0-6	Introduction to the History of Science <i>Maximum Enrollment: 15 students//Class closed to continuing students until term start.</i>	01	Huebner, M	M 19:00 - 21:55	117 DAB	P
<b>LANGUAGES</b>							
L 001	+	Selected Topics in Language	01	Garcia, D	A	A	P
L 102A	3-0-6	Elementary French	01	Orcel, C	MF 12:00 - 12:55 R 08:00 - 08:55	218 BAX 218 BAX	
L 103A	3-0-6	Intermediate French <i>Maximum enrollment: 20 students</i>	01	De Bedts, C	MTR 12:00 - 12:55	127 BAX	
L 106A	5-0-4	Elementary Japanese <i>Taught by Dr. Hirai//Maximum Enrollment: 20 students per section</i>	01	Toner, R	MTWR 15:00 - 15:55	218 BAX	
			02	Toner, R	MTWR 16:00 - 16:55	218 BAX	
L 107A	5-1-4	Intermediate Japanese <i>Maximum Enrollment: 20 students</i>	01	Hirata, K	TWR 12:00 - 12:55	218 BAX	G
L 108A	3-1-6	Advanced Japanese <i>Maximum Enrollment: 15 students</i>	01	Hirata, K	TWR 16:00 - 16:55	117 DAB	G
L/F 109	3-0-6	Introduction to French Cinema from Its Beginning to the Present	01	Orcel, C	M 16:00 - 17:25 R 19:00 - 20:25	115 DAB 115 DAB	
L 110A	3-0-6	Elementary Spanish <i>Sec 1: Maximum Enrollment of 22 students</i>	01	Garcia, D	MWR 12:00 - 12:55	115 DAB	
			02	Arjona, G	MW 16:30 - 17:55	228 BAX	
L 112A	3-0-6	Intermediate Spanish <i>Maximum enrollment: 22 students</i>	01	Garcia, D	MTW 17:00 - 17:55	117 DAB	
L 114A	3-0-6	Spanish and Latin American Literature	01	Arjona, G	MW 15:00 - 16:25	228 BAX	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>LANGUAGES</b>							
L 130A	3-0-6	Elementary German	01	Aebi, A	MWR 13:00 - 13:55	237 BAX	
L 132A	3-0-6	Intermediate German	01	Aebi, A	MWR 12:00 - 12:55	237 BAX	
L 152A	3-0-6	French Literature in Translation: Classical and Modern <i>May not be taken more than once for credit</i>	01	De Bedts, C	T 14:30 - 15:55 F 11:00 - 12:25	315 BAX 315 BAX	
L 170A	4-1-5	Introduction to Chinese <i>Maximum Enrollment: 20 students</i>	01	Wang, X	MW 19:00 - 20:25	210 BAX	
L 171A	5-0-4	Elementary Chinese	01	Ming, F	MTR 19:00 - 19:55	218 BAX	
L 172A	4-1-5	Intermediate Chinese <i>Maximum Enrollment: 20 students</i>	01	Wang, X	TR 19:00 - 20:25	210 BAX	
L 173A	3-1-6	Advanced Chinese	01	Ming, F	MT 20:00 - 21:25	218 BAX	
<b>LAW</b>							
Law033	3-0-6	Introduction to the Law	01	McCaffery, E	MW 13:00 - 14:25	25 BAX	
<b>MATERIALS SCIENCE</b>							
MS 078A	+	Senior Thesis	01	Johnson, W	A	A	P
			02	Haile, S	A	A	P
			03	Greer, J	A	A	P
			04	Snyder, G	A	A	P
MS 100	+	Advanced Work in Materials Science	01	Fultz, B	A	A	P
			02	Lewis, N	A	A	P
			03	Snyder, G	A	A	P
MS 110A	1-0-0	Materials Research Lectures	01	Snyder, G	W 16:00 - 16:55	106 SPL	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MATERIALS SCIENCE</b>							
MS 115A	3-0-6	Fundamentals of Materials Science	01	Haile, S	MF 09:00 - 09:55 W 11:00 - 11:55	102 STL 102 STL	
MS 131	3-0-6	Structure and Bonding in Materials	01	Hofmann, D	TR 09:00 - 10:25	080 MRE	
MS 200	+	Advanced Work in Materials Science	01	Ahn, C	A	A	P
			02	Atwater, H	A	A	P
			03	Greer, J	A	A	P
			04	Fultz, B	A	A	P
			05	Goddard, W	A	A	P
			06	Haile, S	A	A	P
			07	Johnson, W	A	A	P
			08	van de Walle, A	A	A	P
			09	Heath, J	A	A	P
			10	Snyder, G	A	A	P
			11	Daraio, C	A	A	P
			12	Haile, S	A	A	P
			13	Ortiz, M	A	A	P
			14	Roukes, M	A	A	P
			15	Lewis, N	A	A	P
MS 300	+	Thesis Research	01	Atwater, H	A	A	P
			02	van de Walle, A	A	A	P
			03	Rosakis, A	A	A	P
			04	Fultz, B	A	A	P
			05	Goddard, W	A	A	P
			06	Haile, S	A	A	P
			07	Johnson, W	A	A	P
			08	Greer, J	A	A	P
			09	Ortiz, M	A	A	P
			10	Heath, J	A	A	P
			11	Snyder, G	A	A	P
			12	Cross, M	A	A	P
<b>MATHEMATICS</b>							

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MATHEMATICS</b>							
Ma 001A	4-0-5	Calculus of One and Several Variables and Linear Algebra <i>Maximum Enrollment: 20 students per section</i>	01	Jorza, A	MTWF 10:00 - 10:55 R 19:30 - 20:55	151 SLN 151 SLN	P
			02	Marcolli, M	MWF 10:00 - 10:55 R 09:00 - 09:55	Lecture Hall BAX 159 SLN	P
			03	Marcolli, M	MWF 10:00 - 10:55 R 09:00 - 09:55	Lecture Hall BAX 103 DWN	P
			04	Marcolli, M	MWF 10:00 - 10:55 R 10:00 - 10:55	Lecture Hall BAX 159 SLN	P
			05	Marcolli, M	MWF 10:00 - 10:55 R 10:00 - 10:55	Lecture Hall BAX 11 DWN	P
			06	Marcolli, M	MWF 10:00 - 10:55 R 10:00 - 10:55	Lecture Hall BAX 119 DWN	P
			07	Marcolli, M	MWF 10:00 - 10:55 R 13:00 - 13:55	Lecture Hall BAX 107 DWN	P
			08	Marcolli, M	MWF 10:00 - 10:55 R 13:00 - 13:55	Lecture Hall BAX 22 GTS	P
			09	Marcolli, M	MWF 10:00 - 10:55 R 13:00 - 13:55	Lecture Hall BAX 3 BBB	P
			10	Marcolli, M	MWF 10:00 - 10:55 R 14:00 - 14:55	Lecture Hall BAX 103 DWN	P
Ma 002A	4-0-5	Differential Equations, Probability, and Statistics <i>Sections 1 - 8 Practical Track -- Sections 9-12 Analytical Track//Maximum Enrollment: 19 students per section</i>	01	Ramakrishnan, D	MWF 10:00 - 10:55 R 09:00 - 09:55	22 GTS 151 SLN	G
			03	Ramakrishnan, D	MWF 10:00 - 10:55 R 10:00 - 10:55	22 GTS 151 SLN	G
			04	Ramakrishnan, D	MWF 10:00 - 10:55 R 10:00 - 10:55	22 GTS 153 SLN	G
			05	Ramakrishnan, D	MWF 10:00 - 10:55 R 13:00 - 13:55	22 GTS 102 STL	G
			06	Ramakrishnan, D	MWF 10:00 - 10:55 R 14:00 - 14:55	22 GTS 142 KCK	G
			07	Ramakrishnan, D	MWF 10:00 - 10:55 R 14:00 - 14:55	22 GTS 102 STL	G
			08	Ramakrishnan, D	MWF 10:00 - 10:55	22 GTS	G

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MATHEMATICS</b>							
Ma 002A	4-0-5	Differential Equations, Probability, and Statistics <i>Sections 1 - 8 Practical Track -- Sections 9-12 Analytical Track//Maximum Enrollment: 19 students per section</i>	08	Ramakrishnan, D	R 13:00 - 13:55	125 BAX	G
			09	Makarov, N	MWF 10:00 - 10:55	119 KRK	G
					R 09:00 - 09:55	257 SLN	
			10	Makarov, N	MWF 10:00 - 10:55	119 KRK	G
					R 10:00 - 10:55	27 GTS	
			11	Makarov, N	MWF 10:00 - 10:55	119 KRK	G
					R 13:00 - 13:55	128 BAX	
			12	Makarov, N	MWF 10:00 - 10:55	119 KRK	G
					R 14:00 - 14:55	11 DWN	
Ma 005A	3-0-6	Introduction to Abstract Algebra	01	Aschbacher, M	MWF 09:00 - 09:55	151 SLN	
Ma/CS 006A	3-0-6	Introduction to Discrete Mathematics	01	Omar, M	MWF 13:00 - 13:55	151 SLN	
Ma 008	3-0-0	Problem Solving In Calculus	01	Simon, B	OM,M 15:00 - 15:55	151 SLN	
Ma 010	2-0-1	Oral Presentation	01	Marculli, M	W 14:00 - 15:55	153 SLN	
Ma 017	2-0-2	How to Solve It	01	Simon, B	T 19:30 - 20:25	151 SLN	P
Ma 092A	+	Senior Thesis	01	Ramakrishnan, D	A	A	P
			02	Mantovan, E	A	A	P
Ma 098	+	Independent Reading	01	Jorza, A	A	A	P
Ma 108A	3-0-6	Classical Analysis	01	Sokic, M	MWF 11:00 - 11:55	151 SLN	
Ma 109A	3-0-6	Introduction to Geometry and Topology	01	Agarwala, S	MWF 10:00 - 10:55	159 SLN	
Ma 110A	3-0-6	Analysis, I	01	Makarov, N	MWF 11:00 - 11:55	159 SLN	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MATHEMATICS</b>							
Ma 116A	3-0-6	Mathematical Logic and Axiomatic Set Theory	01	Kechris, A	TR 13:00 - 14:25	151 SLN	
Ma 120A	3-0-6	Abstract Algebra	01	Flach, M	MWF 09:00 - 09:55	159 SLN	
Ma 121A	3-0-6	Combinatorial Analysis	01	Wilson, R	TR 13:00 - 14:25	159 SLN	
EE/Ma 126A	3-0-6	Information Theory	01	Effros, M	MW 10:30 - 11:55	070 MRE	G
CS/EE/Ma 129A	3-0-6	Information and Complexity	01	Winfrey, E	TR 13:00 - 14:25	213 ANB	
Ma 130A	3-0-6	Algebraic Geometry	01	Tian, Z	MWF 13:00 - 13:55	153 SLN	
Ma/ACM 144A	3-0-6	Probability <i>New time</i>	01	Alberts, T	TR 13:00 - 14:25	153 SLN	
Ma 145A	3-0-6	Introduction to Unitary Group Representations	01	Lei, G	MWF 15:00 - 15:55	159 SLN	
Ma 151A	3-0-6	Algebraic and Differential Topology <i>New time</i>	01	Baba, S	MWF 10:00 - 10:55	153 SLN	
Ma 157A	3-0-6	Riemannian Geometry	01	Tian, Z	TR 13:00 - 14:25	257 SLN	
Ma 160A	3-0-6	Number Theory	01	Hedayat Zadeh Razavi, S	MWF 14:00 - 14:55	159 SLN	
Ma 162	3-0-6	Topics in Number Theory	01	Flach, M	MWF 13:00 - 13:55	159 SLN	
Ma 191A	3-0-6	The Ten Martini Problem	01	Krueger, H	M 14:00 - 14:55 TR 14:30 - 15:25	257 SLN 257 SLN	
Ma 192A	3-0-6	Geometric Flows in Low Dimensional Geometry and Topology	01	Markovic, V	MWF 13:00 - 13:55	257 SLN	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MATHEMATICS</b>							
Ma 193A	3-0-6	Algebraic Stacks	01	Geraschenko, A	MWF 09:00 - 09:55	257 SLN	
Ma 290	+	Reading	01	Aschbacher, M	A	A	P
			02	Borodin, A	A	A	P
			03	Calegari, D	A	A	P
			04	Flach, M	A	A	P
			05	Graber, T	A	A	P
			06	Kechris, A	A	A	P
			07	Makarov, N	A	A	P
			08	Mantovan, E	A	A	P
			09	Marcolli, M	A	A	P
			10	Rains, E	A	A	P
			11	Ramakrishnan, D	A	A	P
			12	Simon, B	A	A	P
			13	Wilson, R	A	A	P
			14	Ni, Y	A	A	P
Ma 390	+	Research	01	Aschbacher, M	A	A	P
			02	Borodin, A	A	A	P
			03	Calegari, D	A	A	P
			04	Flach, M	A	A	P
			05	Graber, T	A	A	P
			06	Kechris, A	A	A	P
			07	Makarov, N	A	A	P
			08	Mantovan, E	A	A	P
			09	Marcolli, M	A	A	P
			10	Rains, E	A	A	P
			11	Ramakrishnan, D	A	A	P
			12	Simon, B	A	A	P
			13	Wilson, R	A	A	P
			14	Gukov, S	A	A	P
			15	Desbrun, M	A	A	P

**MECHANICAL ENGINEERING**



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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MECHANICAL ENGINEERING</b>							
ME 019A	3-0-6	Fluid Mechanics	01	Dabiri, J	TR 10:30 - 11:55	101 GUG	
ME 035A	3-0-6	Statics and Dynamics	01	Lapusta, N	TR 09:00 - 10:25	306 TOM	G
ME 065	3-0-6	Mechanics of Materials <i>Taught concurrently with Ae/AM/CE/ME 102A</i>	01	Ravichandran, G	TR 09:00 - 10:25	101 GUG	G
ME 066	3-0-6	Vibration <i>Taught concurrently with AM/CE 151a</i>	01	Heaton, T	MWF 10:00 - 10:55	206 TOM	G
ME 072A	3-4-2	Engineering Design Laboratory	01	Ruoff, C / Van Deusen, J	TR 15:00 - 16:25	306 TOM	G
ME 090A	0-0-9	Senior Thesis, Experimental	01	Colonius, T	A	A	G
ME 091A	0-0-9	Senior Thesis, Analytical	01	Colonius, T	A	A	G
ME 100	+	Advanced Work in Mechanical Engineering	01 02 03	Hunt, M Shepherd, J Colonius, T	A A A	A A A	P P P
Ae/APh/CE/ME 101A	3-0-6	Fluid Mechanics	01	Dimotakis, P	MWF 10:00 - 10:55	101 GUG	
Ae/AM/CE/ME 102A	3-0-6	Mechanics of Structures and Solids	01	Ravichandran, G	TR 09:00 - 10:25	101 GUG	G
E/ME 105	3-0-6	Product Design for the Developing World	01	Pickar, K	MW 20:00 - 21:25	Classroom NewMedia	
EST/EE/ME 109A	3-0-6	Energy	01	Rutledge, D	MWF 15:00 - 15:55	080 MRE	
ME 110	+	Special Laboratory Work in Mechanical Engineering	01	Fultz, B	A	A	

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MECHANICAL ENGINEERING</b>							
ME 118	3-0-6	Thermodynamics <i>Will be taught concurrently with ChE 165.</i>	01	Wang, Z	TR 10:30 - 11:55	106 SPL	G
ME 119A	3-0-6	Heat and Mass Transfer	01	Minnich, A	TR 13:00 - 14:25	306 TOM	
AM/CE/ME 150A	1-0-0	Graduate Engineering Seminar	01	Lapusta, N	A	A	P
Ae/Ge/ME 160A	3-0-6	Continuum Mechanics of Fluids and Solids	01	Kochmann, D	TR 14:30 - 15:55	206 TOM	G
ME/CE 163	3-0-6	Mechanics and Rheology of Fluid-Infiltrated Porous Media	01	Andrade, J	TR 13:00 - 14:25	206 TOM	
ME 170	0-0-4	Introduction to Mechanical Prototyping <i>Maximum enrollment: 25 students //Students must submit a questionnaire available at the Registrar's Office by June 3rd.</i>	01	Van Deusen, J	OM,T 13:00 - 13:55	024 SPL	P
ME 200	+	Advanced Work in Mechanical Engineering	01	Brennen, C	A	A	P
			03	Burdick, J	A	A	P
Ae/AM/CE/ME 214A	3-0-6	Computational Solid Mechanics	01	Ortiz, M	MWF 13:00 - 13:55	306 FIR	
ME 300	+	Research in Mechanical Engineering	01	Andrade, J	A	A	P
			02	Bellan, P	A	A	P
			03	Bhattacharya, K	A	A	P
			04	Brennen, C	A	A	P
			05	Burdick, J	A	A	P
			06	Colonus, T	A	A	P
			07	Hunt, M	A	A	P
			08	Murray, R	A	A	P
			09	Ortiz, M	A	A	P
			10	Dabiri, J	A	A	P
			11	Ravichandran, G	A	A	P
			12	Shepherd, J	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>MECHANICAL ENGINEERING</b>							
ME 300	+	Research in Mechanical Engineering	13	Fultz, B	A	A	P
			14	Greer, J	A	A	P
			15	Goodwin, D	A	A	P
			16	Adkins, J	A	A	P
			17	Leonard, A	A	A	P
			18	Lapusta, N	A	A	P
			19	Gharib, M	A	A	P
			20	Brady, J	A	A	P
			21	Dabiri, J	A	A	P
			22	Troian, S	A	A	P
			23	Daraio, C	A	A	P
			24	Dickinson, M	A	A	P
			25	Haile, S	A	A	P
			26	Atwater, H	A	A	P
			27	Blanquart, G	A	A	P
			28	McKeon, B	A	A	P
29	Hoffmann, M	A	A	P			
30	Kochmann, D	A	A	P			
<b>MUSIC</b>							
Mu 027	3-0-6	Fundamentals of Music Theory and Elementary Ear Training	01	Neenan, T	MW 11:00 - 12:25	19 BAX	
Mu 137	3-0-6	History I: Music History to 1750	01	Neenan, T	MW 14:30 - 15:55	19 BAX	
<b>PERFORMANCE AND ACTIVITIES</b>							
PA 015A	1-0-2	Student Publications	01	Kipling, R	A	A	P
PA 016A	0-3-0	Cooking Basics <i>Open by lottery only; See the Regis home page for info//Location: 400 S. Hill</i>	01	Mannion, T	T 18:30 - 21:25	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PERFORMANCE AND ACTIVITIES</b>							
PA 030A	0-3-0	Guitar	01	Elgart, M	T 16:30 - 17:25	Library AVE	P
		<i>Sec 1: Beginning Guitar / Sec 2: Intermediate</i>	02	Elgart, M	T 15:30 - 16:25	Library AVE	P
		<i>Guitar / Sec 3: Advanced Guitar</i>	03	Elgart, M	T 17:30 - 18:25	Library AVE	P
PA 031A	0-3-0	Chamber Music	01	Bing, D	OM,A	A	P
		<i>Sec 1: Mixed Ensembles // Sec 2: Piano four-</i>	02	Ward, R	OM,A	A	P
		<i>hands // Sec. 3: Guitar Ensemble</i>	03	Elgart, M	OM,A	A	P
PA 032A	0-3-0	Symphony Orchestra	01	Gross, A	T 19:30 - 22:15	Ramo Auditorium BAX	P
PA 033A	0-3-0	Concert Band	01	Bing, W	R 19:15 - 21:25	Ramo Auditorium BAX	P
PA 034A	0-3-0	Jazz Band	01	Bing, W	M 19:15 - 21:00	Ramo Auditorium BAX Ramo Auditorium BAX	P
					M 21:15 - 22:45		
PA 035A	0-3-0	Women's Glee Club	01	Sulahian, N	M 19:30 - 21:25 W 17:00 - 17:55	Basement BCK Basement BCK	P
PA 036A	0-3-0	Men's Glee Club	01	Sulahian, N	M 19:30 - 21:25 W 17:00 - 17:55	Basement BCK 345 STUD	P
PA 037A	0-3-0	Chamber Singers	01	Sulahian, N	W 18:00 - 18:55	Basement BCK	P
PA 040A	2-0-1	Theater Arts	01	Brophy, B	OM,T 19:30 - 20:25	TCT	P
PA 061A	0-3-0	Silkscreen and Silk Painting	01	Barry, J	M 19:00 - 21:55	Garage TCT	P
PA 062A	0-3-0	Drawing and Painting	01	Barry, J	T 19:00 - 21:55	Garage TCT	P
PA 063A	0-3-0	Ceramics	01	Freed, S	W 19:00 - 21:55	Ceramic Room POLY	P
PA 080A	3-0-0	Pilot Training <i>Class Cancelled</i>	01	Volckmann, B	R 19:00 - 21:55	104 WAT	P

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHILOSOPHY</b>							
Hum/PI 008	3-0-6	Right and Wrong <i>Maximum enrollment: 15 students per section//Class closed to continuing students until term start.</i>	01	Cowie, F	TR 09:00 - 10:25	237 BAX	P
			02	Cowie, F	TR 14:30 - 15:55	237 BAX	P
Hum/PI 009	3-0-6	Knowledge and Reality <i>Maximum enrollment: 15 students per section//Class closed to continuing students until term start.</i>	01	Manning, G	TR 09:00 - 10:25	128 BAX	P
			02	Manning, G	TR 14:30 - 15:55	128 BAX	P
PI 090A	1-0-8	Senior Thesis	01	Staff	A	A	G
HPS/PI 120	3-0-6	Introduction to Philosophy of Science <i>Maximum enrollment: 20 students // Class open during online registration</i>	01	Velasco, J	TR 10:30 - 11:55	127 BAX	
HPS/PI 129	3-0-6	Introduction to Philosophy of Biology <i>Maximum enrollment: 20 students // Class open during online registration</i>	01	Velasco, J	TR 14:30 - 15:55	070 MRE	
PI 150	3-0-6	17th-Century Philosophy: Bacon to Leibniz <i>Maximum enrollment: 15 students</i>	01	Manning, G	R 19:00 - 21:55	237 BAX	
<b>PHYSICAL EDUCATION</b>							
PE 001A	3-0-0	Student Designed Fitness	01	D'Auria, J	A	A	P
PE 006A	3-0-0	Core Training, Beginning/Intermediate	01	Marbut, S	MW 14:00 - 14:55	MPR BAC	P
PE 007A	0-0-0	Speed and Agility Training, Intermediate/Advanced	01	Marbut, S	MW 13:00 - 13:55	TRK BAC	P
PE 009A	3-0-0	Soccer	01	Uribe, R	MW 14:00 - 14:55	SOF BAC	P
PE 010A	3-0-0	Aerobic Dance <i>Class cancelled</i>	01	Uribe, R	A	A	P

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICAL EDUCATION</b>							
PE 020A	3-0-0	Fencing, Beginning and Intermediate/Advanced <i>Class cancelled</i>	01	D'Asaro, M	TR 15:00 - 15:55	BRW	P
PE 023A	3-0-0	Track and Field, Beginning	01	Levesque, J	OM,W 16:00 - 16:55	TRK BAC	P
PE 024A	3-0-0	Yoga, Beginning <i>Class cancelled</i>	01	Uribe, R	A	MPR BAC	P
PE 027A	3-0-0	Ultimate Frisbee <i>Class closed - no further enrollments will be allowed</i>	01	Boortz, S / Landesman, J	MW 19:30 - 20:55	SOF BAC	P
PE 030A	3-0-0	Golf, Beginning, Intermediate, and Advanced <i>Sec 1: Beginning</i>	01	D'Auria, J	TR 11:00 - 11:55	NOF BAC	P
PE 035A	3-0-0	Diving, Beginning/Intermediate	01	Dodd, C	MF 13:00 - 13:55	POOL BRN	P
PE 036A	3-0-0	Swimming, Beginning/Intermediate and Advanced <i>Section 1 - Beg/Int // Section 2 - Adv</i>	01 02	Dodd, C Dodd, C	TR 14:00 - 14:55 TR 15:00 - 15:55	POOL BRN POOL BRN	P P
PE 040A	3-0-0	Dance Dance Revolution <i>Class cancelled</i>	01	Staff	A	BAC	P
PE 044A	3-0-0	Karate (Shotokan), Beginning and Intermediate/Advanced <i>Section 1 - Beg ---- Section 2 - cancelled</i>	01 02	Ferguson, I Staff	MW 19:30 - 20:25 MW 20:30 - 21:25	MPR BAC MPR BAC	P P
PE 046A	3-0-0	Karate (Tang Soo Do), Beginning and Intermediate/Advanced	01	Hassan, R	OM,TR 19:30 - 20:55	BRW	P
PE 048A	3-0-0	T'ai-Chi Ch'uan, Beginning and Intermediate/Advanced	01	Mugglebee, P	M 15:00 - 15:55 R 19:00 - 19:55	MPR BAC MPR BAC	P
PE 050A	3-0-0	Badminton, Beginning/Intermediate	01	Bresanello, S	W 13:00 - 14:55	BRW	P
PE 054A	3-0-0	Racquetball, Beginning and Intermediate/Advanced	01	D'Auria, J	TR 15:00 - 15:55	BAC	P

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICAL EDUCATION</b>							
PE 056A	3-0-0	Squash, Beginning, Intermediate, Advanced <i>Sect. 1 Beg // Sect. 2 cancelled</i>	01	Bresanello, S	OM,T 17:00 - 17:55	BAC	P
PE 060A	3-0-0	Tennis, Beginning, Intermediate, and Advanced <i>Sect. 1 - Beginning // Sect. 2 - Intermediate // Sect. 3 - Advanced // Sect. 4 - cancelled</i>	01	D'Auria, J	MW 12:00 - 12:55	TCT BAC	P
			02	Gamble, M	TR 14:00 - 14:55	TCT BAC	P
			03	Gamble, M	WF 16:00 - 16:55	TCT BAC	P
PE 070A	3-0-0	Weight Training, Beginning/Intermediate <i>section 3 cancelled</i>	01	Eslinger, O	MW 13:00 - 13:55	BAC	P
			02	Gamble, M	TR 15:00 - 15:55	BAC	P
			03	Eslinger, O	MW 14:00 - 14:55	BAC	P
PE 080A	1-1-1	Health Advocates	01	Stapf, M	W 19:00 - 21:55	YHC	P
PE 082A	3-0-0	Rock Climbing, Beginning and Intermediate <i>**\$25 off-site facility fee</i>	01	Hamilton, D	OM,T 20:00 - 20:55	BRW	P
PE 083A	3-0-0	Intercollegiate Basketball Team (Women)	01	Marbut, S	MTWRFS 16:00 - 17:55	BAC	P
PE 084A	3-0-0	Table Tennis, Beginning, Intermediate, and Advanced <i>Sect. 1 - Beg/Int // Sect. 2 - Beg/Int // Sect. 3 - Adv</i>	01	Wang, W	M 12:00 - 13:55	BRW	P
			02	Wang, W	M 14:00 - 15:55	BRW	P
			03	Wang, W	M 19:00 - 20:55	BRW	P
PE 089A	3-0-0	Intercollegiate Fencing Team (Men and Women)	01	Corbit, C	TR 20:00 - 21:55	BRW	P
PE 090A	3-0-0	Intercollegiate Water Polo Team (Men & Women)	01	Moser, J	MTWRFS 16:00 - 17:55	POOL BAC	P
PE 091A	3-0-0	Intercollegiate Basketball Team (Men)	01	Eslinger, O	MTWRFS 16:00 - 17:55	BAC	P
PE 092A	3-0-0	Intercollegiate Soccer Team (Men)	01	Uribe, R	MTWRFS 16:00 - 17:55	NOF BAC	P
PE 097A	3-0-0	Intercollegiate Cross Country Team (Men and Women)	01	Jung, S	MTWRFS 16:00 - 17:55	TRK BAC	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICAL EDUCATION</b>							
PE 099A	3-0-0	Intercollegiate Volleyball Team (Women)	01	Uribe, R	MTWRFS 16:00 - 17:55	BAC	P
<b>PHYSICS</b>							
Ph 001A	4-0-5	Classical Mechanics and Electromagnetism	01	Patterson, R	WF 11:00 - 11:55	201 BRG	P
					MR 13:00 - 13:55	103 DWN	
			02	Patterson, R	WF 11:00 - 11:55	201 BRG	P
					MR 15:00 - 15:55	119 KRK	
			03	Patterson, R	WF 11:00 - 11:55	201 BRG	P
					MR 13:00 - 13:55	142 KCK	
			04	Patterson, R	WF 11:00 - 11:55	201 BRG	P
					MR 15:00 - 15:55	142 KCK	
			05	Patterson, R	WF 11:00 - 11:55	201 BRG	P
					MR 13:00 - 13:55	119 DWN	
Ph 002A	4-0-5	Waves, Quantum Mechanics, and Statistical Physics <i>Maximum enrollment: 35 students per section</i>	01	Martin, C / Refael, G	TR 11:00 - 11:55	201 BRG	G
					WF 09:00 - 09:55	11 DWN	
			02	Martin, C / Refael, G	TR 11:00 - 11:55	201 BRG	G
					WF 11:00 - 11:55	11 DWN	
			03	Martin, C / Refael, G	TR 11:00 - 11:55	201 BRG	G
					WF 11:00 - 11:55	119 DWN	
			04	Martin, C / Refael, G	TR 11:00 - 11:55	201 BRG	G
					WF 13:00 - 13:55	103 DWN	
			05	Martin, C / Refael, G	TR 11:00 - 11:55	201 BRG	G



CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 002A	4-0-5	Waves, Quantum Mechanics, and Statistical Physics <i>Maximum enrollment: 35 students per section</i>	05	Martin, C / Refael, G	WF 13:00 - 13:55	119 DWN	G
			06	Martin, C / Refael, G	TR 11:00 - 11:55	201 BRG	G
					WF 15:00 - 15:55	11 DWN	
			07	Martin, C / Refael, G	TR 11:00 - 11:55	201 BRG	G
				WF 15:00 - 15:55	119 DWN		
Ph 003	0-6-0	Physics Laboratory <i>Maximum enrollment: 10 students per section</i>	01	Sannibale, V / Libbrecht, K	OM,T 14:00 - 14:55	201 BRG	
			02	Sannibale, V / Libbrecht, K	OM,T 14:00 - 14:55	201 BRG	
FS/Ph 004	2-0-4	Freshman Seminar: Physics of the Large Hadron Collider	01	Weinstein, A	W 13:00 - 14:55	114 BRG	P
Ph 005	0-9-0	Analog Electronics for Physicists	01	Sannibale, V / Rice, F / Libbrecht, K	OM,T 15:00 - 15:55	201 BRG	G
FS/Ph 009	2-0-4	Freshman Seminar: The Science of Music	01	Politzer, H	MF 09:00 - 09:55	248 LAU	P
Ph 010	2-0-1	Frontiers in Physics	01	Prince, T	F 14:00 - 15:55	107 DWN	P
Ph 011A	2-0-4	Research Tutorial	01	Tombrello, T	A	201 SLN	P
Ph 012A	4-0-5	Waves, Quantum Physics, and Statistical Mechanics	01	Kimble, H	TR 10:30 - 11:55	269 LAU	G
FS/Ph 013	2-0-4	Freshman Seminar: Time, Love, and Memory	01	Pine, J	OM,T 16:00 - 16:55	248 LAU	P
FS/Ph 014	2-0-4	Freshman Seminar: Albatrosses, Beetles and Cetaceans	01	Stevenson, D	OM,M 15:00 - 15:55	215 NMD	P
Ph 020	0-6-0	Computational Physics Laboratory I	01	Mach, C / Prince, T	OM,M 15:00 - 15:55	304 BRG	P
Ph 050A	1-0-3	Caltech Physics League <i>OM will be held Tuesday, October 11th at 6pm.</i>	01	Refael, G	OM,T 18:00 - 18:55	114 BRG	

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 070	2-0-4	Oral and Written Communication	01	Hitlin, D	T 14:00 - 15:55	469 LAU	
Ph 077A	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,M 15:00 - 15:55	210 BRG	G
Ph 077B	0-5-4	Advanced Physics Laboratory	01	Black, E / Libbrecht, K	OM,M 15:00 - 15:55	210 BRG	G
Ph 078A	9-0-0	Senior Thesis, Experimental	01	Stone, E	A	A	P
Ph 079A	9-0-0	Senior Thesis, Theoretical	01	Stone, E	A	A	P
Ph 103A	3-0-6	Topics in Contemporary Physics: Neuroscience for Physicists and Engineers	01	Pine, J	OM,M 16:00 - 16:55	269 LAU	P
Ph 105	3-0-6	Analog Electronics for Physicists	01	Sannibale, V / Rice, F / Libbrecht, K	OM,T 15:00 - 15:55	201 BRG	G
Ph 106A	3-0-6	Topics in Classical Physics	01	Cross, M	TR 10:30 - 11:55	107 DWN	
APh/Ph 115	3-0-9	Physics of Momentum Transport in Hydrodynamic Systems <i>Movies, precepts or makeup classes held F 1-2:30pm</i>	01	Troian, S	TR 13:00 - 14:25	104 WAT	G
Ph 125A	3-0-6	Quantum Mechanics	01	Wise, M	MWF 10:00 - 10:55	107 DWN	
Ph 127A	3-0-6	Statistical Physics	01	Motrunich, O	MR 14:30 - 15:55	107 DWN	
Ph 129A	3-0-6	Mathematical Methods of Physics	01	Porter, F	TR 10:30 - 11:55	103 DWN	
Ph 135A	3-0-6	Applications of Quantum Mechanics <i>Course will cover Condensed-matter physics.</i>	01	Yeh, N	TR 13:00 - 14:25	269 LAU	

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 136A	3-0-6	Applications of Classical Physics <i>Grading scheme P/F. Letter grades awarded by petition.</i>	01	Chen, Y	MW 13:00 - 14:25	269 LAU	
Ph 171	+	Reading and Independent Study	01	Preskill, J	A	A	P
			02	Refael, G	A	A	P
			03	Cross, M	A	A	P
			04	Mabuchi, H	A	A	P
			05	Schwarz, J	A	A	P
			06	Phillips, R	A	A	P
			07	Motrunich, O	A	A	P
			08	Kapustin, A	A	A	P
			09	Simon, B	A	A	P
			10	Chen, Y	A	A	P
			11	Porter, F	A	A	P
			17	Wilson, R	A	A	P
			19	Libbrecht, K	A	A	P
			20	Troian, S	A	A	P
			21	Phinney, E	A	A	P
			22	Gukov, S	A	A	P
			24	Oguri, H	A	A	P
			25	Wise, M	A	A	P
			26	Golwala, S	A	A	P
			27	Weinstein, A	A	A	P
			28	Makarov, N	A	A	P
Ph 172	+	Research in Experimental Physics	01	Barish, B	A	A	P
			02	Hughes, E	A	A	P
			03	Golwala, S	A	A	P
			04	Bellan, P	A	A	P
			05	Eisenstein, J	A	A	P
			06	Filippone, B	A	A	P
			07	Scherer, A	A	A	P
			08	Wise, M	A	A	P
			09	Flagan, R	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 172	+	Research in Experimental Physics	10	Adhikari, R	A	A	P
			11	Harrison, F	A	A	P
			12	Hitlin, D	A	A	P
			13	Porter, F	A	A	P
			14	Scoville, N	A	A	P
			15	Fraser, S	A	A	P
			16	Kimble, H	A	A	P
			17	Prince, T	A	A	P
			18	Zewail, A	A	A	P
			19	Libbrecht, K	A	A	P
			20	Mabuchi, H	A	A	P
			21	Martin, C	A	A	P
			22	Troian, S	A	A	P
			23	McKeown, R	A	A	P
			24	Beauchamp, J	A	A	P
			26	Phillips, R	A	A	P
			27	Winfree, E	A	A	P
			28	Heath, J	A	A	P
			29	Atwater, H	A	A	P
			32	Haile, S	A	A	P
			33	Schwab, K	A	A	P
			34	Roukes, M	A	A	P
			35	Stone, E	A	A	P
			36	Pine, J	A	A	P
			37	Ott, C	A	A	P
			42	Weinstein, A	A	A	P
44	Yeh, N	A	A	P			
46	Zmuidzinas, J	A	A	P			
47	Quake, S	A	A	P			
49	Newman, H	A	A	P			
50	Painter, O	A	A	P			
51	Vahala, K	A	A	P			
52	Readhead, A	A	A	P			

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 172	+	Research in Experimental Physics	53	Fraser, S	A	A	P
			54	Guo, C	A	A	P
			55	Spiropulu, M	A	A	P
Ph 173	+	Research in Theoretical Physics	01	Schwarz, J	A	A	P
			02	Motrunich, O	A	A	P
			03	Phinney, E	A	A	P
			04	Marcus, R	A	A	P
			05	Benson, A	A	A	P
			06	Filippone, B	A	A	P
			07	Zewail, A	A	A	P
			08	Troian, S	A	A	P
			09	Simon, B	A	A	P
			10	Carroll, S	A	A	P
			11	Gukov, S	A	A	P
			12	Ott, C	A	A	P
			13	Hirata, C	A	A	P
			14	Kamionkowski, M	A	A	P
			15	Kapustin, A	A	A	P
			16	Chen, Y	A	A	P
			24	Oguri, H	A	A	P
			30	Preskill, J	A	A	P
			39	Thorne, K	A	A	P
			43	Wise, M	A	A	P
44	Cross, M	A	A	P			
47	Phillips, R	A	A	P			
48	Adami, C	A	A	P			
49	Wilson, R	A	A	P			
50	Kitaev, A	A	A	P			
51	Refael, G	A	A	P			
52	Goddard, W	A	A	P			
CNS/Bi/Ph/CS 187	3-0-6	Neural Computation	01	Perona, P	TR 10:30 - 11:55	080 MRE	

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 205A	3-0-6	Relativistic Quantum Mechanics	01	Kapustin, A	MW 10:30 - 11:55	269 LAU	
Ph 230A	3-0-6	Elementary Particle Theory <i>class will meet in 269 LAU for the first &amp; second week of classes, 9/26, 9/28, 10/3 &amp; 10/5</i>	01	Gukov, S	MW 09:00 - 10:25	469 LAU	P
Ph 236A	3-0-6	Relativity	01	Hirata, C	WF 14:30 - 15:55	269 LAU	
Ph 242A	2-0-1	Physics Seminar	01	Stone, E	F 12:00 - 13:55	114 BRG	P
Ph 300	+	Thesis Research	01	Newman, H	A	A	P
			02	Zmuidzinas, J	A	A	P
			03	Cross, M	A	A	P
			04	Kennedy, M	A	A	P
			05	Phillips, T	A	A	P
			06	Filippone, B	A	A	P
			07	Marcolli, M	A	A	P
			08	Kamionkowski, M	A	A	P
			09	Readhead, A	A	A	P
			10	Phillips, R	A	A	P
			11	Harrison, F	A	A	P
			12	Hitlin, D	A	A	P
			13	Eisenstein, J	A	A	P
			14	Oguri, H	A	A	P
			15	Barish, B	A	A	P
			16	Kimble, H	A	A	P
			17	Zewail, A	A	A	P
			18	Koch, C	A	A	P
			19	Libbrecht, K	A	A	P
			20	Mabuchi, H	A	A	P
			21	Martin, A	A	A	P
			22	Martin, C	A	A	P
			23	McKeown, R	A	A	P

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**OFFICE OF THE REGISTRAR**  
**Course Schedule FA 2011-12**

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>PHYSICS</b>							
Ph 300	+	Thesis Research	24	Kapustin, A	A	A	P
			25	Hughes, E	A	A	P
			26	Winfree, E	A	A	P
			27	Ellis, R	A	A	P
			28	Motrunich, O	A	A	P
			29	Refael, G	A	A	P
			30	Preskill, J	A	A	P
			31	Quake, S	A	A	P
			32	Gukov, S	A	A	P
			33	Painter, O	A	A	P
			34	Roukes, M	A	A	P
			35	Kitaev, A	A	A	P
			36	Schwarz, J	A	A	P
			37	Marcus, R	A	A	P
			38	Stone, E	A	A	P
			39	Thorne, K	A	A	P
			41	Golwala, S	A	A	P
			42	Wilson, R	A	A	P
			43	Wise, M	A	A	P
			44	Yeh, N	A	A	P
			45	Troian, S	A	A	P
			46	Gharib, M	A	A	P
			47	Weinstein, A	A	A	P
			48	Chen, Y	A	A	P
			49	Fraser, S	A	A	P
			50	Spiropulu, M	A	A	P
51	Phinney, E	A	A	P			
52	Heath, J	A	A	P			
53	Benson, A	A	A	P			
54	Ott, C	A	A	P			
<b>POLITICAL SCIENCE</b>							

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>POLITICAL SCIENCE</b>							
PS 012	3-0-6	Introduction to Political Science	01	Ordeshook, P	MWF 15:00 - 15:55	Lecture Hall BAX	
BEM/PS 126	3-0-6	Business and Public Policy <i>Class cancelled</i>	01	Snowberg, E	MW 13:00 - 14:25	210 BAX	
PS 132	3-0-6	Formal Theories in Political Science	01	Agranov, M	TR 14:30 - 15:55	125 BAX	G
Ec/PS 160A	3-3-3	Laboratory Experiments in the Social Sciences <i>Taught concurrently with SS 260//Sec A required for Sections B and C//</i>	01	Plott, C	TR 09:00 - 10:25	210 BAX	G
Ec/PS 190	+	Undergraduate Research	01 02 03 04 05 06	Border, K Goeree, J Rangel, A Ordeshook, P Kiewiet, D Ensminger, J	A A A A A A	A A A A A A	P P P P P P
<b>PSYCHOLOGY</b>							
Psy016	3-0-6	Understanding Psychological Disorders <i>Open by lottery only - See REGIS Home page for details // Maximum enrollment: 30 students</i>	01	Paul, L	MW 10:30 - 11:55	25 BAX	
Psy/CNS 105A	1.5-0-3.5	Frontiers in Neuroeconomics	01	O'Doherty, J	M 09:30 - 10:55	218 BAX	P
Ec/Psy 109A	1.5-0-3.5	Frontiers in Behavioral Economics	01	Camerer, C	W 13:00 - 14:25	228 BAX	P
CNS/SS/Psy 110A	1.5-0-3.5	Cognitive Neuroscience Tools	01	Rangel, A	F 13:00 - 14:25	315 BAX	P
<b>SOCIAL SCIENCE</b>							
SS 098	+	Reading in Social Science	01	Staff	A	A	P



CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>SOCIAL SCIENCE</b>							
CNS/SS/Psy 110A	1.5-0-3.5	Cognitive Neuroscience Tools	01	Rangel, A	F 13:00 - 14:25	315 BAX	P
H/SS 124	3-0-6	Problems in Historical Demography <i>Maximum enrollment: 15 students // Class open during online registration</i>	01	Dennison, T	TR 10:30 - 11:55	210 BAX	G
SS 200	3-0-6	Selected Topics in Social Science	01	Cvitanic, J	A	A	
SS 201A	3-0-6	Analytical Foundations of Social Science <i>Open to Social Science graduate students only.</i>	01	Ortoleva, P	TR 09:00 - 10:25	228 BAX	G
SS 202A	3-0-6	Political Theory <i>Open to Social Science graduate students only.</i>	01	Palfrey, T	TR 10:30 - 11:25	315 BAX	G
SS 205A	3-0-6	Foundations of Economics <i>Open to Graduate students only.</i>	01	Border, K	TR 14:30 - 15:55	228 BAX	
SS 210A	3-0-6	Foundations of Political Economy	01	Agranov, M	T 10:00 - 12:55	19 BAX	G
SS 211A	3-0-6	Advanced Economic Theory	01	Ortoleva, P	M 17:00 - 19:55	128 BAX	G
SS 222A	3-0-6	Econometrics <i>Open to graduate students only. // New time</i>	01	Shum, M	MW 13:00 - 14:25	128 BAX	
SS 223A	3-0-6	Advanced Topics in Econometric Theory	01	Sherman, R	T 08:30 - 09:55 R 09:00 - 10:25	125 BAX 125 BAX	G
SS 229A	3-0-6	Theoretical and Quantitative Dimensions of Historical Development	01	Hoffman, P	MW 13:00 - 14:25	127 BAX	G
SS 231A	3-0-6	American Politics <i>Open to graduate students only.</i>	01	Alvarez, R	T 13:00 - 15:55	19 BAX	G
SS 260	3-0-6	Experimental Methods of Political Economy <i>Taught concurrently with Ec/PS 160//Note: sec a required for secs b and c</i>	01	Plott, C	TR 09:00 - 10:25	210 BAX	G

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>SOCIAL SCIENCE</b>							
SS 283A	2-0-1	Graduate Pro-Seminar in Social Science	01	Rosenthal, J	M 14:30 - 15:55	210 BAX	P
SS 300	+	Research in Social Science	01	Ledyard, J	A	A	P
			02	Plott, C	A	A	P
			03	Echenique, F	A	A	P
			04	Camerer, C	A	A	P
			05	Katz, J	A	A	P
			06	Cvitanic, J	A	A	P
			07	Chambers, C	A	A	P
			08	Bossaerts, P	A	A	P
			09	Rangel, A	A	A	P
			10	Kiewiet, D	A	A	P
			11	Alvarez, R	A	A	P
			12	Sherman, R	A	A	P
			13	Jackson, M	A	A	P
			14	McAfee, R	A	A	P
			15	Goeree, J	A	A	P
			16	Rosenthal, J	A	A	P
			17	Yariv, L	A	A	P
			18	Palfrey, T	A	A	P
			19	Shum, M	A	A	P
			20	Gillen, B	A	A	P
<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
UCL100	36-0-0	University College London Scholars Program	01	Staff	A	A	P
EDN100	36-0-0	University of Edinburgh Scholars Program	01	Staff	A	A	P

CALIFORNIA INSTITUTE OF TECHNOLOGY  
OFFICE OF THE REGISTRAR  
Course Schedule FA 2011-12

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

Course Offering	Units	Offering Title	Section	Instructor	Days/Time	Location	Grade Scheme
<b>STUDY ABROAD</b>							
EPT100	36-0-0	Ecole Polytechnique Scholars Program	01	Staff	A	A	P
MEL100	0-0-0	Melbourne Scholars Program	01	Staff	A	A	P