

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

| | | | |
|---------|---|------|--|
| ALLES | Alles Laboratory | JRG | Jorgensen Laboratory for Information Science |
| ANX | Bridge Annex | KAR | Karman Laboratory |
| ARM | Arms Laboratory of Geological Sciences | KCK | Keck Engineering Laboratory |
| BAC | Braun Athletic Center | KRK | Kerkchoff Laboratory of Biological Sciences |
| BAX | Baxter Hall of Humanities and Social Services | LAU | Lauritsen Physics Laboratory |
| BBB | Beckman Laboratory of Behavioral Biology | MEAD | Undergraduate Chemistry Laboratory |
| BCK | Beckman Institute | MRE | Moore Laboratory |
| BRD | Broad Center | NMD | North Mudd Building of Geological Sciences |
| BRG | Bridge Laboratory of Physics | NYS | Noyes Laboratory of Chemical Physics |
| BRN | Braun Laboratory | POLY | Polytechnic School |
| BRW | Brown Gym | ROB | Robinson Laboratory of Astrophysics |
| BTH | Booth Computing Center | SAC | Student Activities Center |
| CHR | Church Laboratory of Chemical Biology | SFL | Sherman Fairchild Library |
| CRL | Crellin Chemistry Laboratory | SLN | Sloan Laboratory of Mathematics and Physics |
| DAB | Dabney Hall of Humanities | SMD | South Mudd Building of Geophysics and Planetary Sciences |
| DWN | Downs Physics Laboratory | SPL | Spalding Laboratory of Chemical Engineering |
| DWN/LAU | Downs Lauritsen | STL | Steele Laboratory of Electrical Engineering |
| EBRG | East Bridge | TOM | Thomas Engineering Laboratory |
| FIR | Firestone Flight Science Laboratory | WAT | Watson Laboratory of Applied Physics |
| GTS | Gates Chemical Laboratory | WINN | Winnet Center |
| GUG | Guggenheim Laboratory | YHC | Young Health Center |

GRADING SCHEME

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

TIMES/LOCATION/UNITS

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

DAYS OF THE WEEK

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

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------|-------|---|---------|--------------|--------------------|----------|--------------|
| AERONAUTICS | | | | | | | |
| Ae 100 | + | Research in Aeronautics | 01 | Culick | A | A | P |
| | | | 02 | Gharib | A | A | P |
| | | | 03 | Hornung | A | A | P |
| | | | 04 | Leonard | A | A | P |
| | | | 05 | Ortiz | A | A | P |
| | | | 06 | Ravichandran | A | A | P |
| | | | 07 | Rosakis | A | A | P |
| | | | 08 | Sercel | A | A | P |
| | | | 09 | Shepherd | A | A | P |
| Ae/APh/CE/ME 101A | 3-0-6 | Fluid Mechanics | 01 | Pullin | MWF 10:00 - 10:55 | 101 GUG | G |
| Ae/AM/CE/ME 102A | 3-0-6 | Mechanics of Structures and Solids <i>Taught concurrently with AM/ME 65A</i> | 01 | Bhattacharya | TR 09:00 - 10:25 | 101 GUG | G |
| Ae/JP 103A | 3-0-6 | Propulsion, Dynamics, and Control of Aircraft | 01 | Krok | TR 10:30 - 11:55 | 308 FIR | G |
| Ae/APh 104A | 3-0-6 | Experimental Methods | 01 | Ravichandran | TR 13:00 - 14:25 | 101 GUG | G |
| CE/Ae/AM 108A | 3-0-6 | Computational Mechanics | 01 | Hall | OM,M 15:00 - 15:55 | 210 TOM | |
| Ae/CDS 125A | 3-0-6 | Spacecraft Systems Engineering | 01 | Sercel | OM,T 16:00 - 16:55 | 202 GUG | |
| Ae 150A | 1-0-0 | Aeronautical Seminar | 01 | Shepherd | M 13:00 - 13:55 | 101 GUG | P |
| Ae 200 | + | Advanced Research in Aeronautics | 01 | Bellan | A | A | P |
| | | | 02 | Bhattacharya | A | A | P |
| | | | 03 | Culick | A | A | P |
| | | | 04 | Dimotakis | A | A | P |
| | | | 05 | Gharib | A | A | P |
| | | | 06 | Hornung | A | A | P |
| | | | 07 | Leonard | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|---|-------|---|---------|--------------|--------------------------------------|-------------------|--------------|
| AERONAUTICS | | | | | | | |
| Ae 200 | + | Advanced Research in Aeronautics | 08 | Murray | A | A | P |
| | | | 09 | Ortiz | A | A | P |
| | | | 10 | Pierce | A | A | P |
| | | | 11 | Pullin | A | A | P |
| | | | 12 | Ravichandran | A | A | P |
| | | | 13 | Rosakis | A | A | P |
| | | | 14 | Seinfeld | A | A | P |
| | | | 15 | Sercel | A | A | P |
| | | | 16 | Shepherd | A | A | P |
| | | | 17 | Albee | A | A | P |
| | | | 18 | Lapusta | A | A | P |
| Ae 208A | 1-0-0 | Fluid Mechanics Seminar | 01 | Pullin | F 15:00 - 15:55 | 101 GUG | P |
| Ae/AM/ME 209A | 1-0-0 | Seminar in Solid Mechanics | 01 | Ravichandran | A | A | P |
| Ae/AM/ME 225 | 3-0-6 | Special Topics in Solid Mechanics <i>First 5 classes will meet in 200 Karman Conference Room</i> | 01 | Ortiz | MWF 01:00 - 13:55 | 304 FIR | G |
| Ae/ACM 232A | 3-0-6 | Computational Fluid Dynamics | 01 | Colonius | MW 10:30 - 11:55 | 206 TOM | P |
| Ae/Ge/ME 266A | 3-0-6 | Dynamic Fracture and Frictional Faulting | 01 | Lapusta | MW 13:30 - 14:55 | 306 TOM | |
| ANTHROPOLOGY | | | | | | | |
| An 022 | 3-0-6 | Introduction to Sociocultural Anthropology | 01 | O'Leary | TR 13:00 - 14:25 | LecHall BAX | |
| APPLIED & COMPUTATIONAL MATH | | | | | | | |
| ACM095A | 4-0-8 | Introductory Methods of Applied Mathematics | 01 | Meiron | MWF 11:00 - 11:55 T 11:00 - 11:55 | 119 KRK 11 DWN | |
| | | | 02 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|---|--------|---|---------|------------|-------------------|----------|--------------|
| APPLIED & COMPUTATIONAL MATH | | | | | | | |
| ACM095A | 4-0-8 | Introductory Methods of Applied Mathematics | 02 | Meiron | T 11:00 - 11:55 | 119 DWN | |
| | | | 03 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | R 09:00 - 09:55 | 11 DWN | |
| | | | 04 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | R 11:00 - 11:55 | 11 DWN | |
| | | | 05 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | W 14:00 - 14:55 | 119 DWN | |
| | | | 06 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | T 13:00 - 13:55 | 11 DWN | |
| | | | 07 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | T 14:00 - 14:55 | 103 DWN | |
| | | | | | MWF 11:00 - 11:55 | 119 KRK | |
| | | R 14:00 - 14:55 | 103 DWN | | | | |
| | | MWF 11:00 - 11:55 | 119 KRK | | | | |
| | | R 16:00 - 16:55 | 119 DWN | | | | |
| | | MWF 11:00 - 11:55 | 119 KRK | | | | |
| | | 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 | 119 KRK | | | | |
| ACM100A | 4-0-8 | Introductory Methods of Applied Mathematics | 01 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | T 11:00 - 11:55 | 11 DWN | |
| | | | 02 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | T 11:00 - 11:55 | 119 DWN | |
| | | | 03 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | R 09:00 - 09:55 | 11 DWN | |
| | | | 04 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | R 11:00 - 11:55 | 11 DWN | | | | |
| 05 | Meiron | MWF 11:00 - 11:55 | 119 KRK | | | | |
| | | W 14:00 - 14:55 | 119 DWN | | | | |
| 06 | Meiron | MWF 11:00 - 11:55 | 119 KRK | | | | |
| | | T 13:00 - 13:55 | 11 DWN | | | | |
| 07 | Meiron | 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 |
|---|-------|---|---------|------------|-------------------|----------|--------------|
| APPLIED & COMPUTATIONAL MATH | | | | | | | |
| ACM100A | 4-0-8 | Introductory Methods of Applied Mathematics | 07 | Meiron | T 14:00 - 14:55 | 103 DWN | |
| | | | 08 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | R 14:00 - 14:55 | 103 DWN | |
| | | | 09 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | R 16:00 - 16:55 | 119 DWN | |
| | | | 10 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | M 14:00 - 14:55 | 119 DWN | |
| | | | 11 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| | | | | | T 16:00 - 16:55 | 119 DWN | |
| | | | 12 | Meiron | MWF 11:00 - 11:55 | 119 KRK | |
| ACM101A | 3-0-6 | Methods of Applied Mathematics I | 01 | Bruno | TR 14:30 - 15:55 | 306 FIR | |
| ACM105 | 3-0-6 | Applied Real and Functional Analysis | 01 | Leonard | MWF 15:00 - 15:55 | 308 FIR | |
| ACM106A | 3-0-6 | Introductory Methods of Computational Mathematics | 01 | Hou | TR 10:30 - 11:55 | 306 FIR | |
| ACM/ESE 118 | 3-0-6 | Methods in Applied Statistics and Data Analysis | 01 | Schneider | TR 10:30 - 11:55 | 155 ARM | |
| Ma/ACM 142A | 3-0-6 | Ordinary and Partial Differential Equations | 01 | Goldberg | TR 11:00 - 12:25 | 153 SLN | |
| ACM201A | 4-0-8 | Partial Differential Equations | 01 | Owhadi | TR 13:00 - 14:25 | 308 FIR | |
| Ae/ACM 232A | 3-0-6 | Computational Fluid Dynamics | 01 | Colonius | MW 10:30 - 11:55 | 206 TOM | P |
| ACM290 | 1-0-0 | Applied and Computational Mathematics Colloquium | 01 | Staff | M 16:15 - 17:15 | 101 GUG | P |
| ACM300 | + | Research in Applied and Computational Mathematics | 01 | Bruno | A | A | P |
| | | | 02 | Candes | A | A | P |
| | | | 03 | Cohen | A | A | P |
| | | | 04 | Hou | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|---|-------|---|---------|--------------|--------------------|----------|--------------|
| APPLIED & COMPUTATIONAL MATH | | | | | | | |
| ACM300 | + | Research in Applied and Computational Mathematics | 05 | Marsden | A | A | P |
| | | | 06 | Meiron | A | A | P |
| | | | 07 | Pierce | A | A | P |
| | | | 08 | Yung | A | A | P |
| | | | 09 | Schroder | A | A | P |
| | | | 10 | McEliece | A | A | P |
| APPLIED MECHANICS | | | | | | | |
| AM/ME 035A | 3-0-6 | Statics and Dynamics | 01 | Ortiz | MWF 14:00 - 14:55 | 206 TOM | G |
| AM/ME 065 | 3-0-6 | Mechanics of Materials <i>Taught concurrently with Ae/AM/CE/ME 102A</i> | 01 | Bhattacharya | TR 09:00 - 10:25 | 101 GUG | |
| Ae/AM/CE/ME 102A | 3-0-6 | Mechanics of Structures and Solids <i>Taught concurrently with AM/ME 65A</i> | 01 | Bhattacharya | TR 09:00 - 10:25 | 101 GUG | G |
| CE/Ae/AM 108A | 3-0-6 | Computational Mechanics | 01 | Hall | OM,M 15:00 - 15:55 | 210 TOM | |
| AM 125A | 3-0-6 | Engineering Mathematical Principles | 01 | Beck | TR 09:00 - 10:25 | 206 TOM | G |
| AM 151A | 3-0-6 | Dynamics and Vibrations | 01 | Scruggs | MWF 09:00 - 09:55 | 010 TOM | G |
| AM 200 | + | Special Problems in Advanced Mechanics | 01 | Beck | A | A | P |
| | | | 02 | Hall | A | A | P |
| | | | 03 | Iwan | A | A | P |
| | | | 04 | Phillips | A | A | P |
| | | | 05 | Rosakis | A | A | P |
| Ae/AM/ME 209A | 1-0-0 | Seminar in Solid Mechanics | 01 | Ravichandran | A | A | P |
| Ae/AM/ME 225 | 3-0-6 | Special Topics in Solid Mechanics <i>First 5 classes will meet in 200 Karman Conference Room</i> | 01 | Ortiz | MWF 01:00 - 13:55 | 304 FIR | G |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------------|-------|---|---------|------------------|------------------------------------|--------------------|--------------|
| APPLIED MECHANICS | | | | | | | |
| AM 250 | + | Research in Applied Mechanics | 01 | Beck | A | A | P |
| | | | 02 | Bhattacharya | A | A | P |
| | | | 03 | Brennen | A | A | P |
| | | | 04 | Burdick | A | A | P |
| | | | 05 | Culick | A | A | P |
| | | | 06 | Hall | A | A | P |
| | | | 07 | Iwan | A | A | P |
| | | | 08 | Murray | A | A | P |
| | | | 09 | Ortiz | A | A | P |
| | | | 10 | Phillips | A | A | P |
| | | | 11 | Ravichandran | A | A | P |
| | | | 12 | Rosakis | A | A | P |
| | | | 13 | Roukes | A | A | P |
| | | | 14 | Tai | A | A | P |
| | | | 15 | Ustundag | A | A | P |
| | | | 16 | Lapusta | A | A | P |
| APPLIED PHYSICS | | | | | | | |
| APh/EE 009A | 2-2-2 | Solid-State Electronics for Integrated Circuits <i>Maximum enrollment: 80 students</i> | 01 | Scherer / DeRose | R 10:00 - 10:55 F 13:00 - 13:55 | 070 MRE 070 MRE | G |
| APh017A | 3-0-6 | Thermodynamics | 01 | Painter | TR 15:00 - 16:25 | 104 WAT | G |
| APh078A | 0-9-0 | Senior Thesis, Experimental | 01 | Bellan | A | A | G |
| | | | 02 | Painter | A | A | G |
| | | | 03 | Phillips | A | A | G |
| | | | 04 | Scherer | A | A | G |
| APh079A | 0-9-0 | Senior Thesis, Theoretical | 01 | Staff | A | A | G |
| APh100 | + | Advanced Work in Applied Physics | 01 | Atwater | A | A | P |
| | | | 02 | Bellan | A | A | P |
| | | | 03 | Cross | A | A | P |
| | | | 04 | Culick | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme | | | |
|------------------------|-------|----------------------------------|-------------------|------------|----------------------------------|----------|--------------|--------------------|---------|---|
| APPLIED PHYSICS | | | | | | | | | | |
| APh100 | + | Advanced Work in Applied Physics | 05 | Dimotakis | A | A | P | | | |
| | | | 06 | Fultz | A | A | P | | | |
| | | | 07 | Goddard | A | A | P | | | |
| | | | 08 | Goodstein | A | A | P | | | |
| | | | 09 | Haile | A | A | P | | | |
| | | | 10 | Johnson | A | A | P | | | |
| | | | 11 | Mabuchi | A | A | P | | | |
| | | | 12 | Marcus | A | A | P | | | |
| | | | 13 | McGill | A | A | P | | | |
| | | | 14 | Phillips | A | A | P | | | |
| | | | 15 | Psaltis | A | A | P | | | |
| | | | 16 | Quake | A | A | P | | | |
| | | | 17 | Roukes | A | A | P | | | |
| | | | 18 | Rutledge | A | A | P | | | |
| | | | 19 | Scherer | A | A | P | | | |
| | | | 20 | Tai | A | A | P | | | |
| | | | 21 | Thorne | A | A | P | | | |
| | | | 22 | Tombrello | A | A | P | | | |
| | | | 23 | Vahala | A | A | P | | | |
| | | | 24 | Yariv | A | A | P | | | |
| | | | 25 | Yeh | A | A | P | | | |
| | | | 26 | Zewail | A | A | P | | | |
| | | | Ae/APh/CE/ME 101A | 3-0-6 | Fluid Mechanics | 01 | Pullin | MWF 10:00 - 10:55 | 101 GUG | G |
| | | | Ae/APh 104A | 3-0-6 | Experimental Methods | 01 | Ravichandran | TR 13:00 - 14:25 | 101 GUG | G |
| | | | APh105A | 3-0-6 | States of Matter | 01 | Corngold | MW 11:00 - 12:30 | 104 WAT | G |
| | | | APh109A | 0-6-3 | Micro/Nanofabrication Laboratory | 01 | Ghaffari | OM,M 14:00 - 15:55 | 250 WAT | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------------|-------|------------------------------------|---------|----------------|------------------------------------|--------------------|--------------|
| APPLIED PHYSICS | | | | | | | |
| APh110 | 2-0-0 | Topics in Applied Physics | 01 | Bellan | M 13:00 - 13:55 | 104 WAT | P |
| APh114A | 3-0-6 | Solid-State Physics | 01 | Bockrath | TR 13:00 - 14:25 | 104 WAT | |
| APh/EE 130A | 3-0-6 | Optical System Design | 01 | Yang / Psaltis | TR 10:30 - 11:55 | 104 WAT | G |
| APh150 | 3-0-6 | Atom-Photon Interactions | 01 | Painter | MWF 12:30 - 13:55 | 250 WAT | |
| APh/EE 183A | 3-0-6 | Fundamentals of Electronic Devices | 01 | McGill | W 14:00 - 14:55 F 14:00 - 15:55 | 104 WAT 104 WAT | P |
| APh200 | + | Applied Physics Research | 01 | Atwater | A | A | P |
| | | | 02 | Barton | A | A | P |
| | | | 03 | Bellan | A | A | P |
| | | | 04 | Bockrath | A | A | P |
| | | | 05 | Corngold | A | A | P |
| | | | 06 | Cross | A | A | P |
| | | | 07 | Dimotakis | A | A | P |
| | | | 08 | Fraser | A | A | P |
| | | | 09 | Fultz | A | A | P |
| | | | 10 | Goddard | A | A | P |
| | | | 11 | Goldreich | A | A | P |
| | | | 12 | Goodstein | A | A | P |
| | | | 13 | Haile | A | A | P |
| | | | 14 | Johnson | A | A | P |
| | | | 15 | Libbrecht | A | A | P |
| | | | 16 | Low | A | A | P |
| | | | 17 | Mabuchi | A | A | P |
| | | | 18 | Marcus | A | A | P |
| | | | 19 | McGill | A | A | P |
| | | | 20 | Painter | A | A | P |
| | | | 21 | Phillips | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------------|-------|------------------------------------|---------|------------|------------------------------------|----------|--------------|
| APPLIED PHYSICS | | | | | | | |
| APh200 | + | Applied Physics Research | 22 | Psaltis | A | A | P |
| | | | 23 | Quake | A | A | P |
| | | | 24 | Roukes | A | A | P |
| | | | 25 | Rutledge | A | A | P |
| | | | 26 | Scherer | A | A | P |
| | | | 27 | Shepherd | A | A | P |
| | | | 28 | Tai | A | A | P |
| | | | 29 | Thorne | A | A | P |
| | | | 30 | Tombrello | A | A | P |
| | | | 31 | Vahala | A | A | P |
| | | | 32 | Yariv | A | A | P |
| | | | 33 | Yeh | A | A | P |
| | | | 34 | Zewail | A | A | P |
| | | | 35 | Winfrey | A | A | P |
| | | | 36 | Pierce | A | A | P |
| | | | 37 | Kimble | A | A | P |
| | | | 38 | Zmuidzinas | A | A | P |
| | | | 39 | Jensen | A | A | P |
| | | | 40 | Kornfield | A | A | P |
| | | | APh250 | + | Advanced Topics in Applied Physics | 01 | Staff |
| APh300 | + | Thesis Research in Applied Physics | 01 | Atwater | A | A | P |
| | | | 02 | Bellan | A | A | P |
| | | | 03 | Cross | A | A | P |
| | | | 04 | Culick | A | A | P |
| | | | 05 | Dimotakis | A | A | P |
| | | | 06 | Fraser | A | A | P |
| | | | 07 | Fultz | A | A | P |
| | | | 08 | Goddard | A | A | P |
| | | | 09 | Goodstein | A | A | P |
| | | | 10 | Gould | A | A | P |
| | | | 11 | Johnson | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------------|---------|---|---------|-------------|--------------------|----------|--------------|
| APPLIED PHYSICS | | | | | | | |
| APh300 | + | Thesis Research in Applied Physics | 12 | Libbrecht | A | A | P |
| | | | 13 | McGill | A | A | P |
| | | | 14 | McKeown | A | A | P |
| | | | 15 | Phillips | A | A | P |
| | | | 16 | Psaltis | A | A | P |
| | | | 17 | Quake | A | A | P |
| | | | 18 | Roukes | A | A | P |
| | | | 19 | Rutledge | A | A | P |
| | | | 20 | Scherer | A | A | P |
| | | | 21 | Tai | A | A | P |
| | | | 22 | Thorne | A | A | P |
| | | | 23 | Tombrello | A | A | P |
| | | | 24 | Vahala | A | A | P |
| | | | 25 | Yariv | A | A | P |
| 26 | Zewail | A | A | P | | | |
| 27 | Painter | A | A | P | | | |
| ART HISTORY | | | | | | | |
| Art067 | 3-0-6 | Italian Renaissance Art | 01 | Howard | TR 19:00 - 20:25 | 125 BAX | |
| Art068 | 3-0-6 | Modern Art | 01 | Dini | MW 15:00 - 16:25 | 125 BAX | |
| ASTROPHYSICS | | | | | | | |
| Ay 020 | 3-0-6 | Basic Astronomy and the Galaxy | 01 | Djorgovski | OM,M 15:00 - 15:55 | 106 ROB | |
| Ay 043 | + | Reading in Astronomy and Astrophysics <i>Organizational Meeting: Monday, September 27th from 3-4pm in 106 Robinson</i> | 01 | Blain | A | A | P |
| | | | 03 | Cohen | A | A | P |
| | | | 04 | Djorgovski | A | A | P |
| | | | 05 | Hillenbrand | A | A | P |
| | | | 06 | Phinney | A | A | P |
| | | | 07 | Readhead | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|---------------------|-------|---|---------|-----------------------|--------------------|----------|--------------|
| ASTROPHYSICS | | | | | | | |
| Ay 043 | + | Reading in Astronomy and Astrophysics <i>Organizational Meeting: Monday, September 27th from 3-4pm in 106 Robinson</i> | 08 | Sargent | A | A | P |
| | | | 09 | Sargent | A | A | P |
| | | | 10 | Scoville | A | A | P |
| Ay 078A | 9-0-0 | Senior Thesis <i>Organizational Meeting: Monday, September 27th from 3-4pm in 106 Robinson</i> | 01 | Blandford | A | A | P |
| | | | 02 | Djorgovski | A | A | P |
| | | | 03 | Hillenbrand | A | A | P |
| | | | 04 | Kamionkowski | A | A | P |
| | | | 05 | Phinney | A | A | P |
| | | | 06 | Readhead | A | A | P |
| | | | 07 | Sargent | A | A | P |
| | | | 08 | Scoville | A | A | P |
| | | | 09 | Scoville | A | A | P |
| Ay 101 | 3-2-6 | Physics of Stars | 01 | Sargent / Hillenbrand | OM,M 15:00 - 15:55 | 106 ROB | |
| Ay 121 | 3-0-6 | Radiative Processes | 01 | Readhead | OM,M 15:00 - 15:55 | 106 ROB | |
| Ay 122 | 3-0-6 | Astronomical Measurements and Instrumentation | 01 | Djorgovski / Readhead | OM,M 15:00 - 15:55 | 106 ROB | |
| Ay 123 | 3-0-6 | Structure and Evolution of Stars | 01 | Kamionkowski / Cohen | OM,M 15:00 - 15:55 | 106 ROB | |
| Ge/Ay 133 | 3-0-6 | The Formation, Evolution, and Detection of Planetary Systems | 01 | Brown | MWF 11:00 - 11:55 | 162 SMD | |
| Ay 141A | 1-0-2 | Research Conference in Astronomy | 01 | Kulkarni / Readhead | OM,M 15:00 - 15:55 | 106 ROB | |
| Ay 142 | + | Research in Astronomy and Astrophysics | 01 | Blain | A | A | P |
| | | | 03 | Brown | A | A | P |
| | | | 04 | Cohen | A | A | P |
| | | | 05 | Goldreich | A | A | P |
| | | | 06 | Djorgovski | A | A | P |
| | | | 07 | Ellis | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme | | | |
|---------------------|----------|--|---------|--------------|---|----------|--------------|---|---|---|
| ASTROPHYSICS | | | | | | | | | | |
| Ay 142 | + | Research in Astronomy and Astrophysics | 08 | Hillenbrand | A | A | P | | | |
| | | | 09 | Kamionkowski | A | A | P | | | |
| | | | 10 | Kulkarni | A | A | P | | | |
| | | | 11 | Lange | A | A | P | | | |
| | | | 12 | Libbrecht | A | A | P | | | |
| | | | 13 | Martin | A | A | P | | | |
| | | | 14 | Phillips | A | A | P | | | |
| | | | 15 | Phinney | A | A | P | | | |
| | | | 16 | Readhead | A | A | P | | | |
| | | | 17 | Sargent | A | A | P | | | |
| | | | 18 | Sargent | A | A | P | | | |
| | | | 19 | Stevenson | A | A | P | | | |
| | | | 20 | Scoville | A | A | P | | | |
| | | | 21 | Steidel | A | A | P | | | |
| | | | 22 | Westphal | A | A | P | | | |
| | | | 23 | Zirin | A | A | P | | | |
| | | | 24 | Sari | A | A | P | | | |
| | | | 25 | Blake | A | A | P | | | |
| | | | 26 | Soifer | A | A | P | | | |
| | | | 27 | Adami | A | A | P | | | |
| | | | 28 | McKeown | A | A | P | | | |
| | | | Ay 143 | + | Reading and Independent Study <i>Organizational Meeting: Monday, September 27th from 3-4pm in 106 Robinson</i> | 02 | Cohen | A | A | P |
| | | | | | | 03 | Djorgovski | A | A | P |
| | | | | | | 04 | Goldreich | A | A | P |
| | | | | | | 05 | Hillenbrand | A | A | P |
| | | | | | | 06 | Kulkarni | A | A | P |
| | | | | | | 07 | Martin | A | A | P |
| | | | | | | 08 | Phinney | A | A | P |
| 09 | Readhead | A | | | | A | P | | | |
| 10 | Sargent | A | | | | A | P | | | |
| 11 | Scoville | A | | | | A | P | | | |
| 12 | Zirin | A | | | | A | P | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|--|---------|-----------------|------------------|---------------------------|--------------|
| BIOCHEMISTRY & MOLECULAR BIOPHYSICS | | | | | | | |
| BMB/Bi/Ch 170 | 3-3-3 | Principles of Three-Dimensional Protein Structure | 01 | Rees / Bjorkman | TR 10:30 - 11:55 | 100 - Rock Auditorium BRD | G |
| Bi/BMB 251A | 1-0-0 | Current Research in Cellular and Molecular Biology | 01 | Deshaies / Hay | W 12:00 - 12:55 | 24 BBB | |
| BMB299 | + | Graduate Research | 01 | Arnold | A | A | P |
| | | | 02 | Bjorkman | A | A | P |
| | | | 03 | Bronner-Fraser | A | A | P |
| | | | 04 | Campbell | A | A | P |
| | | | 05 | Collier | A | A | P |
| | | | 06 | Davidson | A | A | P |
| | | | 07 | Deshaies | A | A | P |
| | | | 08 | Dougherty | A | A | P |
| | | | 09 | Fraser | A | A | P |
| | | | 10 | Goddard | A | A | P |
| | | | 11 | Hsieh-Wilson | A | A | P |
| | | | 12 | Jensen | A | A | P |
| | | | 13 | Koch | A | A | P |
| | | | 14 | Mabuchi | A | A | P |
| | | | 15 | Mayo | A | A | P |
| | | | 16 | Parker | A | A | P |
| | | | 17 | Pierce | A | A | P |
| | | | 18 | Quake | A | A | P |
| | | | 19 | Rees | A | A | P |
| | | | 20 | Roberts | A | A | P |
| | | | 21 | Schuman | A | A | P |
| | | | 22 | Roberts | A | A | P |
| | | | 23 | Elowitz | A | A | P |
| | | | 24 | Patterson | A | A | P |
| | | | 25 | Smolke | A | A | P |
| | | | 26 | Phillips | A | A | P |
| | | | 27 | Meyerowitz | A | A | P |

BIOENGINEERING

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------|-------|---|---------|------------|------------------|-------------------------|--------------|
| BIOENGINEERING | | | | | | | |
| BE 100A | 0-1-0 | Bioengineering Seminar | 01 | Dickinson | R 16:00 - 16:55 | 142 KCK | P |
| BE 167 | 1-0-0 | Topics in Bioengineering | 01 | Dickinson | M 15:00 - 15:55 | 142 KCK | G |
| BE 201A | 3-5-4 | Physiology for Bioengineering | 01 | Lansford | MW 12:00 - 13:25 | 134 (Auditorium) BCK | G |
| BE 240 | 3-0-6 | Speical Topics in Bioengineering <i>Biomaterials - Science & Engineering</i> | 01 | Ravi | TR 08:30 - 09:55 | 142 KCK | |
| BE 250A | + | Research in Bioengineering | 01 | Gharib | A | A | P |
| | | | 02 | Phillips | A | A | P |
| | | | 03 | Hajimiri | A | A | P |
| | | | 04 | Burdick | A | A | P |
| | | | 05 | Dickinson | A | A | P |
| | | | 06 | Arnold | A | A | P |
| | | | 07 | Pine | A | A | P |
| | | | 08 | Mabuchi | A | A | P |
| | | | 09 | Quartz | A | A | P |
| | | | 10 | Asthagiri | A | A | P |
| | | | 11 | Quake | A | A | P |
| | | | 12 | Tai | A | A | P |
| | | | 13 | Pierce | A | A | P |
| | | | 14 | Lester | A | A | P |
| | | | 15 | Roukes | A | A | P |
| | | | 16 | Ponce | A | A | P |
| | | | 17 | Heath | A | A | P |
| | | | 18 | Fraser | A | A | P |
| BIOLOGY | | | | | | | |
| Bi 002 | 2-0-4 | Current Research in Biology | 01 | Revel | T 19:00 - 20:55 | 101 KRK | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|------------------------|---------|----------------|-----------|----------|--------------|
| BIOLOGY | | | | | | | |
| Bi 022 | + | Undergraduate Research | 01 | Abelson | A | A | P |
| | | | 02 | Alberola-Ila | A | A | P |
| | | | 03 | Allman | A | A | P |
| | | | 04 | Baltimore | A | A | P |
| | | | 05 | Benzer | A | A | P |
| | | | 06 | Bjorkman | A | A | P |
| | | | 07 | Bronner-Fraser | A | A | P |
| | | | 08 | Campbell | A | A | P |
| | | | 09 | Chan | A | A | P |
| | | | 10 | Deshaies | A | A | P |
| | | | 11 | Fraser | A | A | P |
| | | | 12 | Hay | A | A | P |
| | | | 13 | Kennedy | A | A | P |
| | | | 14 | Koch | A | A | P |
| | | | 15 | Konishi | A | A | P |
| | | | 16 | Laurent | A | A | P |
| | | | 17 | Lester | A | A | P |
| | | | 18 | Lewis | A | A | P |
| | | | 19 | Mayo | A | A | P |
| | | | 20 | Meyerowitz | A | A | P |
| | | | 21 | Parker | A | A | P |
| | | | 22 | Patterson | A | A | P |
| | | | 23 | Revel | A | A | P |
| | | | 24 | Rothenberg | A | A | P |
| | | | 25 | Schuman | A | A | P |
| | | | 26 | Simon | A | A | P |
| | | | 27 | Sternberg | A | A | P |
| | | | 28 | Varshavsky | A | A | P |
| | | | 29 | Shimojo | A | A | P |
| | | | 30 | Wold | A | A | P |
| | | | 31 | Zinn | A | A | P |
| | | | 32 | Goddard | A | A | P |
| | | | 33 | Elowitz | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|-------|---|---------|--------------------|-------------------|---------------------------|--------------|
| BIOLOGY | | | | | | | |
| Bi 022 | + | Undergraduate Research | 34 | Albee | A | A | P |
| | | | 37 | Newman | A | A | P |
| | | | 38 | Adolphs | A | A | P |
| | | | 39 | Strauss | A | A | P |
| Bi 080 | 1-0-2 | Biology Major Seminar | 01 | Revel / Schuman | M 12:00 - 12:55 | 151 BRN | P |
| Bi 090A | + | Undergraduate Thesis | 01 | Revel | A | A | P |
| | | | 02 | Allman | A | A | P |
| Bi/Ch 110 | 4-0-8 | Introduction to Biochemistry | 01 | Campbell | TR 11:00 - 11:55 | 147 NYS | |
| | | | | | W 14:00 - 15:55 | 147 NYS | |
| Bi 122 | 3-0-6 | Genetics | 01 | Hay / Sternberg | TR 13:00 - 14:25 | 119 KRK | |
| Bi/Ch 132 | 3-0-6 | Biophysics of Macromolecules | 01 | Barton / Beauchamp | TR 13:00 - 14:25 | 100 - Rock Auditorium BRD | |
| Bi 145 | 4-0-5 | Anatomy and Physiology | 01 | Fraser | MW 19:00 - 20:25 | 119 KRK | |
| Bi/CNS 150 | 4-0-6 | Neurobiology | 01 | Zinn / Kennedy | MWF 11:00 - 11:55 | 100 - Rock Auditorium BRD | |
| ESE/Bi 166 | 3-0-6 | Microbial Physiology | 01 | Leadbetter | MWF 09:00 - 09:55 | 008 TOM | |
| BMB/Bi/Ch 170 | 3-3-3 | Principles of Three-Dimensional Protein Structure | 01 | Rees / Bjorkman | TR 10:30 - 11:55 | 100 - Rock Auditorium BRD | G |
| Bi 177 | 3-0-6 | Principles of Modern Microscopy | 01 | Fraser | MW 13:30 - 14:55 | 100 - Rock Auditorium BRD | |
| Bi 180 | 2-8-2 | Methods in Molecular Genetics | 01 | Bertani | MWF 13:00 - 13:55 | 101 KRK | P |
| | | | | | MWF 14:00 - 15:55 | 317 KRK | |
| CNS/Bi/Ph/CS 187 | 3-0-6 | Neural Computation | 01 | Winfree | TR 10:30 - 11:55 | 080 MRE | G |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|-------------------|---------|------------|-----------|----------|--------------|
| BIOLOGY | | | | | | | |
| Bi 299 | + | Graduate Research | 22 | Lewis | A | A | P |
| | | | 23 | Mayo | A | A | P |
| | | | 24 | Meyerowitz | A | A | P |
| | | | 25 | Newman | A | A | P |
| | | | 26 | Parker | A | A | P |
| | | | 27 | Patterson | A | A | P |
| | | | 28 | Perona | A | A | P |
| | | | 29 | Adolphs | A | A | P |
| | | | 30 | Koch | A | A | P |
| | | | 31 | Richards | A | A | P |
| | | | 32 | Rothenberg | A | A | P |
| | | | 33 | Schuman | A | A | P |
| | | | 34 | Shimojo | A | A | P |
| | | | 35 | Simon | A | A | P |
| | | | 36 | Sternberg | A | A | P |
| | | | 37 | Strauss | A | A | P |
| | | | 38 | Varshavsky | A | A | P |
| | | | 39 | Wold | A | A | P |
| | | | 40 | Zinn | A | A | P |
| | | | 41 | Jensen | A | A | P |
| | | | 42 | Rees | A | A | P |
| | | | 43 | Goddard | A | A | P |
| | | | 44 | Andersen | A | A | P |
| | | | 45 | Dickinson | A | A | P |
| | | | 46 | Leadbetter | A | A | P |
| | | | 47 | Winfree | A | A | P |
| | | | 48 | Quake | A | A | P |
| | | | 49 | Benzer | A | A | P |
| | | | 50 | Elowitz | A | A | P |
| | | | 51 | Gharib | A | A | P |
| BUSINESS ECONOMICS & MANAGEMENT | | | | | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|-------------------------------------|---------|--------------|-------------------|----------|--------------|
| BUSINESS ECONOMICS & MANAGEMENT | | | | | | | |
| BEM101 | 3-0-6 | Introduction to Accounting | 01 | Swenson | T 19:00 - 21:55 | 25 BAX | |
| BEM104 | 3-0-6 | Investment Analysis | 01 | Gerard | T 19:00 - 22:00 | 080 MRE | |
| BEM/Ec 146 | 3-0-6 | Organization Design | 01 | Camerer | MW 13:30 - 14:55 | 127 BAX | |
| CHEMICAL ENGINEERING | | | | | | | |
| ChE063A | 3-0-6 | Chemical Engineering Thermodynamics | 01 | Flagan | MWF 15:00 - 15:55 | 106 SPL | G |
| ChE080 | + | Undergraduate Research | 01 | Arnold | A | A | P |
| | | | 02 | Asthagiri | A | A | P |
| | | | 03 | Barton | A | A | P |
| | | | 04 | Beauchamp | A | A | P |
| | | | 05 | Bercaw | A | A | P |
| | | | 06 | Blake | A | A | P |
| | | | 07 | Brady | A | A | P |
| | | | 08 | Campbell | A | A | P |
| | | | 09 | Collier | A | A | P |
| | | | 10 | Davis | A | A | P |
| | | | 11 | Dervan | A | A | P |
| | | | 12 | Dougherty | A | A | P |
| | | | 13 | Flagan | A | A | P |
| | | | 14 | Gavalas | A | A | P |
| | | | 15 | Giapis | A | A | P |
| | | | 16 | Goddard | A | A | P |
| | | | 17 | Gray | A | A | P |
| | | | 18 | Grubbs | A | A | P |
| | | | 19 | Hsieh-Wilson | A | A | P |
| | | | 20 | Kornfield | A | A | P |
| | | | 21 | Kuppermann | A | A | P |
| | | | 22 | Lewis | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------------|-------|---|---------|------------|-------------------|----------|--------------|
| CHEMICAL ENGINEERING | | | | | | | |
| ChE080 | + | Undergraduate Research | 23 | MacMillan | A | A | P |
| | | | 24 | Marcus | A | A | P |
| | | | 25 | Mayo | A | A | P |
| | | | 26 | McKoy | A | A | P |
| | | | 27 | Okumura | A | A | P |
| | | | 28 | Parker | A | A | P |
| | | | 29 | Peters | A | A | P |
| | | | 30 | Rees | A | A | P |
| | | | 31 | Richards | A | A | P |
| | | | 32 | Roberts | A | A | P |
| | | | 33 | Roberts | A | A | P |
| | | | 34 | Seinfeld | A | A | P |
| | | | 35 | Stoltz | A | A | P |
| | | | 36 | Tirrell | A | A | P |
| | | | 37 | Wang | A | A | P |
| | | | 38 | Weitekamp | A | A | P |
| | | | 39 | Zewail | A | A | P |
| | | | 40 | Smolke | A | A | P |
| ChE090A | + | Senior Thesis | 01 | Flagan | A | A | P |
| ChE103A | 3-0-6 | Transport Phenomena | 01 | Vicic | MWF 09:00 - 09:55 | 106 SPL | G |
| ChE151A | 3-0-9 | Physical and Chemical Rate Processes | 01 | Kornfield | MWF 09:00 - 09:55 | 102 SPL | G |
| ChE152 | 3-0-6 | Heterogeneous Kinetics and Reaction Engineering | 01 | Davis | MWF 13:00 - 13:55 | 106 SPL | G |
| ChE165 | 3-0-6 | Chemical Thermodynamics | 01 | Smolke | TR 09:30 - 10:55 | 106 SPL | G |
| Bi/ChE 228 | 1-6-2 | Electron Microscopy of Soft Materials ** NEW COURSE **Limited Enrollment * Contact Instructor if Course is Full | 01 | Jensen | M 11:00 - 11:55 | 200 BRD | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------------|-------|-------------------------------|---------|--------------|-----------|----------|--------------|
| CHEMICAL ENGINEERING | | | | | | | |
| ChE280 | + | Chemical Engineering Research | 01 | Arnold | A | A | P |
| | | | 02 | Asthagiri | A | A | P |
| | | | 03 | Atwater | A | A | P |
| | | | 04 | Barton | A | A | P |
| | | | 05 | Bercaw | A | A | P |
| | | | 06 | Blake | A | A | P |
| | | | 07 | Brady | A | A | P |
| | | | 08 | Campbell | A | A | P |
| | | | 09 | Collier | A | A | P |
| | | | 10 | Davis | A | A | P |
| | | | 11 | Dervan | A | A | P |
| | | | 12 | Dougherty | A | A | P |
| | | | 13 | Flagan | A | A | P |
| | | | 14 | Fraser | A | A | P |
| | | | 15 | Gavalas | A | A | P |
| | | | 16 | Giapis | A | A | P |
| | | | 17 | Goddard | A | A | P |
| | | | 18 | Gray | A | A | P |
| | | | 19 | Grubbs | A | A | P |
| | | | 20 | Hsieh-Wilson | A | A | P |
| | | | 21 | Kornfield | A | A | P |
| | | | 22 | Kuppermann | A | A | P |
| | | | 23 | Lewis | A | A | P |
| | | | 24 | MacMillan | A | A | P |
| | | | 25 | Marcus | A | A | P |
| | | | 26 | Mayo | A | A | P |
| | | | 27 | McKoy | A | A | P |
| | | | 28 | Okumura | A | A | P |
| | | | 29 | Parker | A | A | P |
| | | | 30 | Peters | A | A | P |
| | | | 31 | Rees | A | A | P |
| | | | 32 | Richardson | A | A | P |
| | | | 33 | Roberts | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------------|---------|--|----------|------------|--------------------|----------|--------------|
| CHEMICAL ENGINEERING | | | | | | | |
| ChE280 | + | Chemical Engineering Research | 34 | Roberts | A | A | P |
| | | | 35 | Seinfeld | A | A | P |
| | | | 36 | Stoltz | A | A | P |
| | | | 37 | Tirrell | A | A | P |
| | | | 38 | Wang | A | A | P |
| | | | 39 | Weitekamp | A | A | P |
| | | | 40 | Yung | A | A | P |
| | | | 41 | Zewail | A | A | P |
| | | | 42 | Heath | A | A | P |
| | | | 43 | Smolke | A | A | P |
| CHEMISTRY | | | | | | | |
| Ch 001A | 3-0-3 | General Chemistry | 01 | Lewis | MTR 11:00 - 11:55 | 22 GTS | P |
| Ch 003A | 0-5-1 | Fundamental Techniques of Experimental Chemistry <i>Maximum enrollment: 20 students per section</i> | 01 | Raymond | M 08:00 - 09:55 | 107 MEAD | P |
| | | | 02 | Raymond | M 13:00 - 15:55 | 107 MEAD | P |
| | | | | | T 08:00 - 09:55 | 107 MEAD | |
| | | | 03 | Raymond | T 13:00 - 15:55 | 107 MEAD | P |
| | | | | | W 08:00 - 09:55 | 107 MEAD | |
| | | | 04 | Raymond | W 13:00 - 15:55 | 107 MEAD | P |
| | | | | | R 08:00 - 09:55 | 107 MEAD | |
| 05 | Raymond | R 13:00 - 15:55 | 107 MEAD | P | | | |
| | | F 08:00 - 09:55 | 107 MEAD | | | | |
| Ch 004A | 1-6-2 | Synthesis and Analysis of Organic and Inorganic Compounds | 01 | Raymond | OM,M 14:00 - 14:55 | 132 NYS | G |
| | | | | | T 08:00 - 10:55 | 105 MEAD | |
| | | | | | R 08:00 - 10:55 | 105 MEAD | |
| | | | 02 | Raymond | OM,M 14:00 - 14:55 | 132 NYS | G |
| | | | | | T 08:00 - 10:55 | 105 MEAD | |
| | | | 03 | Raymond | T 13:00 - 15:55 | 105 MEAD | G |
| | | | | | OM,M 14:00 - 14:55 | 132 NYS | |
| | | T 08:00 - 10:55 | 105 MEAD | | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme | | | | | | | | | |
|------------------|-------|---|---------|-----------------|----------------------|----------|--------------------|--|---------|---------|--|---------|-------|-------------------|---------|--|
| CHEMISTRY | | | | | | | | | | | | | | | | |
| Ch 004A | 1-6-2 | Synthesis and Analysis of Organic and Inorganic Compounds | 03 | Raymond | W 13:00 - 15:55 | 105 MEAD | G | | | | | | | | | |
| | | | 04 | Raymond | OM,M 14:00 - 14:55 | 132 NYS | G | | | | | | | | | |
| | | | | | T 08:00 - 10:55 | 105 MEAD | | | | | | | | | | |
| | | | | | R 13:00 - 15:55 | 105 MEAD | | | | | | | | | | |
| | | | 05 | Raymond | OM,M 14:00 - 14:55 | 132 NYS | G | | | | | | | | | |
| | | | | | R 08:00 - 10:55 | 105 MEAD | | | | | | | | | | |
| | | | | | T 13:00 - 15:55 | 105 MEAD | | | | | | | | | | |
| | | | 06 | Raymond | OM,M 14:00 - 14:55 | 132 NYS | G | | | | | | | | | |
| | | | | | R 08:00 - 10:55 | 105 MEAD | | | | | | | | | | |
| | | | | | W 13:00 - 15:55 | 105 MEAD | | | | | | | | | | |
| Ch 010A | 2-0-1 | Frontiers in Chemistry <i>Lab tour schedule will be decided during first meeting</i> | 01 | Barton / Grubbs | R 12:00 - 12:55 | 115 BCK | P | | | | | | | | | |
| | | | | | R 13:00 - 13:55 | 115 BCK | | | | | | | | | | |
| | | | 02 | Barton / Grubbs | R 12:00 - 12:55 | 115 BCK | P | | | | | | | | | |
| | | | | | R 14:00 - 14:55 | 115 BCK | | | | | | | | | | |
| | | | Ch 014 | 2-0-4 | Chemical Equilibrium | 01 | Richards / Brandow | TR 10:00 - 10:55 | 151 CRL | G | | | | | | |
| | | | | | | Ch 015 | 0-6-4 | Chemical Equilibrium and Analysis Laboratory | 01 | Brandow | OM,T 14:00 - 14:55 | 122 GTS | G | | | |
| | | | | | | | | | Ch 021A | 3-0-6 | The Physical Description of Chemical Systems | 01 | McKoy | MWF 13:00 - 13:55 | 147 NYS | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|-------|-------------------|---------|--------------|-------------------|----------|--------------|
| CHEMISTRY | | | | | | | |
| Ch 041A | 3-0-6 | Organic Chemistry | 01 | Grubbs | MWF 09:00 - 09:55 | 153 NYS | |
| Ch 080 | + | Chemical Research | 01 | Arnold | A | A | P |
| | | | 02 | Asthagiri | A | A | P |
| | | | 03 | Barton | A | A | P |
| | | | 04 | Beauchamp | A | A | P |
| | | | 05 | Bercaw | A | A | P |
| | | | 06 | Blake | A | A | P |
| | | | 07 | Brady | A | A | P |
| | | | 08 | Campbell | A | A | P |
| | | | 09 | Collier | A | A | P |
| | | | 10 | Davis | A | A | P |
| | | | 11 | Dervan | A | A | P |
| | | | 12 | Dougherty | A | A | P |
| | | | 13 | Flagan | A | A | P |
| | | | 14 | Gavalas | A | A | P |
| | | | 15 | Giapis | A | A | P |
| | | | 16 | Goddard | A | A | P |
| | | | 17 | Gray | A | A | P |
| | | | 18 | Grubbs | A | A | P |
| | | | 19 | Hsieh-Wilson | A | A | P |
| | | | 20 | Kornfield | A | A | P |
| | | | 21 | Kuppermann | A | A | P |
| | | | 22 | Lewis | A | A | P |
| | | | 23 | MacMillan | A | A | P |
| | | | 24 | Marcus | A | A | P |
| | | | 25 | Mayo | A | A | P |
| | | | 26 | McKoy | A | A | P |
| | | | 27 | Okumura | A | A | P |
| | | | 28 | Parker | A | A | P |
| | | | 29 | Peters | A | A | P |
| | | | 30 | Rees | A | A | P |
| | | | 31 | Richards | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|--------------|-------------------|---------|------------|----------------------------------|----------|--------------|
| CHEMISTRY | | | | | | | |
| Ch 080 | + | Chemical Research | 32 | Roberts | A | A | P |
| | | | 33 | Roberts | A | A | P |
| | | | 34 | Seinfeld | A | A | P |
| | | | 35 | Stoltz | A | A | P |
| | | | 36 | Tirrell | A | A | P |
| | | | 37 | Wang | A | A | P |
| | | | 38 | Weitekamp | A | A | P |
| | | | 39 | Zewail | A | A | P |
| | | | 40 | Heath | A | A | P |
| | | | Ch 081 | + | Independent Reading in Chemistry | 01 | Arnold |
| 02 | Asthagiri | A | | | | A | P |
| 03 | Barton | A | | | | A | P |
| 04 | Beauchamp | A | | | | A | P |
| 05 | Bercaw | A | | | | A | P |
| 06 | Blake | A | | | | A | P |
| 07 | Brady | A | | | | A | P |
| 08 | Campbell | A | | | | A | P |
| 09 | Collier | A | | | | A | P |
| 10 | Davis | A | | | | A | P |
| 11 | Dervan | A | | | | A | P |
| 12 | Dougherty | A | | | | A | P |
| 13 | Flagan | A | | | | A | P |
| 14 | Gavalas | A | | | | A | P |
| 15 | Giapis | A | | | | A | P |
| 16 | Goddard | A | | | | A | P |
| 17 | Gray | A | | | | A | P |
| 18 | Grubbs | A | | | | A | P |
| 19 | Hsieh-Wilson | A | | | | A | P |
| 20 | Kornfield | A | | | | A | P |
| 21 | Kuppermann | A | | | | A | P |
| 22 | Lewis | A | | | | A | P |
| 23 | MacMillan | A | | | | A | P |
| 24 | Marcus | A | | | | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|----------|---|---------|-----------------------|-------------------------------------|------------------------------|--------------|
| CHEMISTRY | | | | | | | |
| Ch 081 | + | Independent Reading in Chemistry | 25 | Mayo | A | A | P |
| | | | 26 | McKoy | A | A | P |
| | | | 27 | Okumura | A | A | P |
| | | | 28 | Parker | A | A | P |
| | | | 29 | Peters | A | A | P |
| | | | 30 | Rees | A | A | P |
| | | | 31 | Richards | A | A | P |
| | | | 32 | Roberts | A | A | P |
| | | | 33 | Roberts | A | A | P |
| | | | 34 | Seinfeld | A | A | P |
| | | | 35 | Stoltz | A | A | P |
| | | | 36 | Tirrell | A | A | P |
| | | | 37 | Wang | A | A | P |
| | | | 38 | Weitekamp | A | A | P |
| 39 | Zewail | A | A | P | | | |
| 40 | Brantley | A | A | P | | | |
| Bi/Ch 110 | 4-0-8 | Introduction to Biochemistry | 01 | Campbell | TR 11:00 - 11:55 W 14:00 - 15:55 | 147 NYS 147 NYS | |
| Ch 112 | 3-0-6 | Inorganic Chemistry | 01 | Peters | TR 09:00 - 10:25 | 147 NYS | |
| Ch 120A | 3-0-6 | Nature of the Chemical Bond | 01 | Goddard | MWF 14:00 - 14:55 | 134 (Auditorium) BCK | |
| Ch 122A | 3-0-6 | Methods for the Determination of the Structure of Molecules | 01 | Day | MWF 10:00 - 10:55 | 115 BCK | G |
| Ch 125A | 3-0-6 | The Elements of Quantum Chemistry | 01 | Kuppermann | MWF 11:00 - 11:55 | 147 NYS | |
| Bi/Ch 132 | 3-0-6 | Biophysics of Macromolecules | 01 | Barton / Beauchamp | TR 13:00 - 14:25 | 100 - Rock Auditorium BRD | |
| Ch 145 | 3-0-6 | Bioorganic Chemistry of Proteins | 01 | Hsieh-Wilson / Dervan | TR 10:30 - 11:55 | 132 NYS | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|-------|---|---------|-----------------|-------------------|---------------------------|--------------|
| CHEMISTRY | | | | | | | |
| BMB/Bi/Ch 170 | 3-3-3 | Principles of Three-Dimensional Protein Structure | 01 | Rees / Bjorkman | TR 10:30 - 11:55 | 100 - Rock Auditorium BRD | G |
| ESE/Ch/Ge 175A | 3-0-6 | Environmental Organic Chemistry | 01 | Dalleska | MWF 10:00 - 10:55 | 106 SPL | |
| Ch 180 | + | Chemical Research | 01 | Arnold | A | A | P |
| | | | 02 | Asthagiri | A | A | P |
| | | | 03 | Barton | A | A | P |
| | | | 04 | Beauchamp | A | A | P |
| | | | 05 | Bercaw | A | A | P |
| | | | 06 | Blake | A | A | P |
| | | | 07 | Brady | A | A | P |
| | | | 08 | Campbell | A | A | P |
| | | | 09 | Collier | A | A | P |
| | | | 10 | Davis | A | A | P |
| | | | 11 | Dervan | A | A | P |
| | | | 12 | Dougherty | A | A | P |
| | | | 13 | Flagan | A | A | P |
| | | | 14 | Gavalas | A | A | P |
| | | | 15 | Giapis | A | A | P |
| | | | 16 | Goddard | A | A | P |
| | | | 17 | Gray | A | A | P |
| | | | 18 | Grubbs | A | A | P |
| | | | 19 | Hsieh-Wilson | A | A | P |
| | | | 20 | Kornfield | A | A | P |
| | | | 21 | Kuppermann | A | A | P |
| | | | 22 | Lewis | A | A | P |
| | | | 23 | MacMillan | A | A | P |
| | | | 24 | Marcus | A | A | P |
| | | | 25 | Mayo | A | A | P |
| | | | 26 | McKoy | A | A | P |
| | | | 27 | Okumura | A | A | P |
| | | | 28 | Parker | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|--------|--|---------|------------|-------------------|----------|--------------|
| CHEMISTRY | | | | | | | |
| Ch 180 | + | Chemical Research | 29 | Peters | A | A | P |
| | | | 30 | Rees | A | A | P |
| | | | 31 | Richards | A | A | P |
| | | | 32 | Roberts | A | A | P |
| | | | 33 | Roberts | A | A | P |
| | | | 34 | Seinfeld | A | A | P |
| | | | 35 | Stoltz | A | A | P |
| | | | 36 | Tirrell | A | A | P |
| | | | 37 | Wang | A | A | P |
| | | | 38 | Weitekamp | A | A | P |
| | | | 39 | Zewail | A | A | P |
| Ch 213A | 1-0-11 | Advanced Ligand Field Theory | 01 | Gray | F 13:00 - 13:55 | 408 BCK | |
| Ch 242A | 3-0-6 | Chemical Synthesis <i>Tutorials: Thursdays 7-11PM</i> | 01 | Stoltz | MWF 09:00 - 09:55 | 147 NYS | |
| | | | | | R 19:00 - 22:55 | 147 NYS | |
| Ch 280 | + | Chemical Research | 01 | Adkins | A | A | P |
| | | | 02 | Arnold | A | A | P |
| | | | 03 | Asthagiri | A | A | P |
| | | | 04 | Atwater | A | A | P |
| | | | 05 | Barton | A | A | P |
| | | | 06 | Beauchamp | A | A | P |
| | | | 07 | Bercaw | A | A | P |
| | | | 08 | Blake | A | A | P |
| | | | 09 | Brady | A | A | P |
| | | | 10 | Campbell | A | A | P |
| | | | 11 | Collier | A | A | P |
| | | | 12 | Davidson | A | A | P |
| | | | 13 | Davis | A | A | P |
| | | | 14 | Dervan | A | A | P |
| | | | 15 | Dougherty | A | A | P |
| | | | 16 | Flagan | A | A | P |
| | | | 17 | Fraser | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------------|-------|-------------------|---------|--------------|-----------|----------|--------------|
| CHEMISTRY | | | | | | | |
| Ch 280 | + | Chemical Research | 18 | Gavalas | A | A | P |
| | | | 19 | Giapis | A | A | P |
| | | | 20 | Goddard | A | A | P |
| | | | 21 | Gray | A | A | P |
| | | | 22 | Grubbs | A | A | P |
| | | | 23 | Heath | A | A | P |
| | | | 24 | Hsieh-Wilson | A | A | P |
| | | | 25 | Hoffmann | A | A | P |
| | | | 26 | Kornfield | A | A | P |
| | | | 27 | Kuppermann | A | A | P |
| | | | 28 | Lewis | A | A | P |
| | | | 29 | MacMillan | A | A | P |
| | | | 30 | Marcus | A | A | P |
| | | | 31 | Mayo | A | A | P |
| | | | 32 | McKoy | A | A | P |
| | | | 33 | Okumura | A | A | P |
| | | | 34 | Parker | A | A | P |
| | | | 35 | Peters | A | A | P |
| | | | 36 | Pierce | A | A | P |
| | | | 37 | Quake | A | A | P |
| | | | 38 | Rees | A | A | P |
| | | | 39 | Richards | A | A | P |
| | | | 40 | Roberts | A | A | P |
| | | | 41 | Roberts | A | A | P |
| | | | 42 | Seinfeld | A | A | P |
| | | | 43 | Stoltz | A | A | P |
| | | | 44 | Tirrell | A | A | P |
| | | | 45 | Wang | A | A | P |
| | | | 46 | Weitekamp | A | A | P |
| | | | 47 | Wennberg | A | A | P |
| | | | 48 | Zewail | A | A | P |
| | | | 49 | Adami | A | A | P |
| CIVIL ENGINEERING | | | | | | | |

**CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05**

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------------|-------|---|---------|--------------|--------------------|----------|--------------|
| CIVIL ENGINEERING | | | | | | | |
| CE 100 | + | Special Topics in Civil Engineering | 01 | Staff | A | A | P |
| Ae/APh/CE/ME 101A | 3-0-6 | Fluid Mechanics | 01 | Pullin | MWF 10:00 - 10:55 | 101 GUG | G |
| Ae/AM/CE/ME 102A | 3-0-6 | Mechanics of Structures and Solids <i>Taught concurrently with AM/ME 65A</i> | 01 | Bhattacharya | TR 09:00 - 10:25 | 101 GUG | G |
| CE/Ae/AM 108A | 3-0-6 | Computational Mechanics | 01 | Hall | OM,M 15:00 - 15:55 | 210 TOM | |
| CE 130A | 1-0-0 | Civil Engineering Seminar | 01 | Hall | R 16:00 - 16:55 | 206 TOM | P |
| CE/Ge 181 | 3-0-6 | Engineering Seismology | 01 | Heaton | OM,M 13:00 - 14:00 | 210 TOM | G |
| CE 200 | + | Advanced Work in Civil Engineering | 01 | Staff | A | A | P |
| CE 201 | + | Advanced Work in Structural Engineering | 01 | Staff | A | A | P |
| CE 202 | + | Advanced Work in Soil Mechanics | 01 | Staff | A | A | P |
| CE 203 | + | Advanced Work In Hydraulic Engineering | 01 | Staff | A | A | P |
| CE 300 | + | Research in Civil Engineering | 01 | Beck | A | A | P |
| | | | 02 | Hall | A | A | P |
| | | | 03 | Heaton | A | A | P |
| | | | 04 | Iwan | A | A | P |
| | | | 05 | Staff | A | A | P |
| | | | 06 | Ortiz | A | A | P |
| | | | 07 | Raichlen | A | A | P |
| | | | 08 | Wennberg | A | A | P |
| COMPUTATION & NEURAL SYS | | | | | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------------|-------|--|---------|----------------|-------------------|---------------------------|--------------|
| COMPUTATION & NEURAL SYS | | | | | | | |
| EE/CNS/CS 148 | 3-0-6 | Selected Topics in Computational Vision | 01 | Perona | TR 10:30 - 11:55 | 102 STL | |
| Bi/CNS 150 | 4-0-6 | Neurobiology | 01 | Zinn / Kennedy | MWF 11:00 - 11:55 | 100 - Rock Auditorium BRD | |
| CS/CNS/EE 156A | 3-0-6 | Learning Systems | 01 | Abu-Mostafa | TR 14:00 - 15:55 | 102 STL | |
| CS/CNS 171 | 3-6-3 | Introduction to Computer Graphics Laboratory | 01 | Barr | MWF 10:00 - 10:55 | 74 JRG | |
| CNS179 | + | Reading in Computation and Neural Systems | 01 | Abu-Mostafa | A | A | P |
| | | | 02 | Adami | A | A | P |
| | | | 03 | Allman | A | A | P |
| | | | 04 | Andersen | A | A | P |
| | | | 05 | Bruck | A | A | P |
| | | | 06 | Burdick | A | A | P |
| | | | 07 | Chandy | A | A | P |
| | | | 08 | Fraser | A | A | P |
| | | | 09 | Koch | A | A | P |
| | | | 10 | Konishi | A | A | P |
| | | | 11 | Perona | A | A | P |
| | | | 12 | Psaltis | A | A | P |
| | | | 13 | Schuman | A | A | P |
| | | | 14 | Shimojo | A | A | P |
| | | | 15 | Sternberg | A | A | P |
| | | | 16 | Wold | A | A | P |
| | | | 17 | Winfrey | A | A | P |
| CNS180 | + | Research in Computation and Neural Systems | 01 | Abu-Mostafa | A | A | P |
| | | | 02 | Adami | A | A | P |
| | | | 03 | Allman | A | A | P |
| | | | 04 | Andersen | A | A | P |
| | | | 05 | Arnold | A | A | P |
| | | | 06 | Burdick | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme | | | |
|-------------------------------------|---------|--|------------------|------------|--|----------|--------------|------------------|---------|---|
| COMPUTATION & NEURAL SYS | | | | | | | | | | |
| CNS180 | + | Research in Computation and Neural Systems | 07 | Chandy | A | A | P | | | |
| | | | 08 | Dickinson | A | A | P | | | |
| | | | 09 | Fraser | A | A | P | | | |
| | | | 10 | Koch | A | A | P | | | |
| | | | 11 | Konishi | A | A | P | | | |
| | | | 12 | Laurent | A | A | P | | | |
| | | | 13 | Perona | A | A | P | | | |
| | | | 14 | Psaltis | A | A | P | | | |
| | | | 15 | Quartz | A | A | P | | | |
| | | | 16 | Schuman | A | A | P | | | |
| | | | 17 | Shimojo | A | A | P | | | |
| | | | 18 | Siapas | A | A | P | | | |
| | | | 19 | Siapas | A | A | P | | | |
| | | | 20 | Sternberg | A | A | P | | | |
| | | | 21 | Winfree | A | A | P | | | |
| | | | 22 | Wold | A | A | P | | | |
| | | | 23 | Umans | A | A | P | | | |
| | | | 24 | Elowitz | A | A | P | | | |
| | | | 25 | Kennedy | A | A | P | | | |
| | | | CNS/Bi/Ph/CS 187 | 3-0-6 | Neural Computation | 01 | Winfree | TR 10:30 - 11:55 | 080 MRE | G |
| | | | Bi/CNS 217 | 2-0-4 | Central Mechanisms in Perception | 01 | Allman | F 14:00 - 15:55 | 200 BRD | |
| | | | CNS280 | + | Research in Computation and Neural Systems | 01 | Abu-Mostafa | A | A | P |
| | | | | | | 02 | Adami | A | A | P |
| | | | | | | 03 | Allman | A | A | P |
| | | | | | | 04 | Andersen | A | A | P |
| 05 | Bruck | A | | | | A | P | | | |
| 06 | Burdick | A | | | | A | P | | | |
| 07 | Chandy | A | | | | A | P | | | |
| 08 | Fraser | A | | | | A | P | | | |
| 09 | Koch | A | | | | A | P | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------------|-----------|--|---------|-----------------------------|--------------------|----------|--------------|
| COMPUTATION & NEURAL SYS | | | | | | | |
| CNS280 | + | Research in Computation and Neural Systems | 10 | Konishi | A | A | P |
| | | | 11 | Laurent | A | A | P |
| | | | 12 | Lester | A | A | P |
| | | | 13 | Perona | A | A | P |
| | | | 14 | Lester | A | A | P |
| | | | 15 | Quartz | A | A | P |
| | | | 16 | Schuman | A | A | P |
| | | | 17 | Shimojo | A | A | P |
| | | | 18 | Siapas | A | A | P |
| | | | 19 | Sternberg | A | A | P |
| | | | 20 | Winfrey | A | A | P |
| | | | 21 | Wold | A | A | P |
| | | | 22 | Hajimiri | A | A | P |
| 23 | Dickinson | A | A | P | | | |
| COMPUTER SCIENCE | | | | | | | |
| CS 001 | 3-4-2 | Introduction to Computation | 01 | Brantley / Vanier | MW 14:00 - 14:55 | 22 GTS | P |
| Ma/CS 006A | 3-0-6 | Introduction to Discrete Mathematics | 01 | Berger | MWF 13:00 - 13:55 | 159 SLN | |
| CS 011 | 0-3-0 | Computer Language Shop | 01 | Brantley / Vanier | OM,M 20:00 - 20:55 | 74 JRG | |
| EE/CS 053 | + | Microprocessor Projects Laboratory | 01 | George | OM,W 16:00 - 16:55 | 070 MRE | |
| EE/CS 054 | + | Advanced Microprocessor Projects Laboratory | 01 | George | OM,W 16:00 - 16:55 | 070 MRE | |
| CS/EE/ME 075A | 2-0-1 | Introduction to Multi-Disciplinary Systems Engineering | 01 | Burdick / Murray / Brantley | OM,M 19:00 - 19:25 | 102 STL | |
| EE/CS 080A | 9-0-0 | Senior Thesis | 01 | Potter | A | A | G |
| | | | 02 | Winfrey | A | A | G |
| | | | 03 | Chandy | A | A | G |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------|-------|--|---------|-------------|-------------------|----------|--------------|
| COMPUTER SCIENCE | | | | | | | |
| CS 081A | + | Undergraduate Laboratory in Computer Science | 01 | Abu-Mostafa | A | A | P |
| | | | 02 | Barr | A | A | P |
| | | | 03 | Chandy | A | A | P |
| | | | 04 | DeHon | A | A | P |
| | | | 05 | George | A | A | P |
| | | | 06 | Hickey | A | A | P |
| | | | 07 | Low | A | A | P |
| | | | 08 | Martin | A | A | P |
| | | | 09 | Murray | A | A | P |
| | | | 10 | Perona | A | A | P |
| | | | 11 | Schroder | A | A | P |
| | | | 12 | Schulman | A | A | P |
| | | | 13 | Winfrey | A | A | P |
| | | | 14 | Brantley | A | A | P |
| CS 090 | + | Undergrad Research in Computer Science | 01 | Murray | A | A | P |
| | | | 02 | Brantley | A | A | P |
| | | | 03 | Perona | A | A | P |
| | | | 04 | Schroder | A | A | P |
| Ma/CS 117A | 3-0-6 | Computability Theory | 01 | Rosendal | TR 11:00 - 12:25 | 257 SLN | |
| CS/EE/Ma 129A | 3-0-6 | Information and Complexity | 01 | Abu-Mostafa | MWF 15:00 - 15:55 | 070 MRE | |
| CS 134A | 3-3-3 | Computing Systems | 01 | Hickey | MWF 15:00 - 15:55 | 74 JRG | |
| CS/EE 145A | 3-3-3 | Networking | 01 | Low | TR 10:30 - 11:55 | 74 JRG | |
| EE/CNS/CS 148 | 3-0-6 | Selected Topics in Computational Vision | 01 | Perona | TR 10:30 - 11:55 | 102 STL | |
| CS/CNS/EE 156A | 3-0-6 | Learning Systems | 01 | Abu-Mostafa | TR 14:00 - 15:55 | 102 STL | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------|-------|--|------------|-------------|------------------------|----------|--------------|
| COMPUTER SCIENCE | | | | | | | |
| CS/CNS 171 | 3-6-3 | Introduction to Computer Graphics Laboratory | 01 | Barr | MWF 10:00 - 10:55 | 74 JRG | |
| CS 180 | + | Master's Thesis Research | 01 | Abu-Mostafa | A | A | P |
| | | | 03 | Barr | A | A | P |
| | | | 04 | Chandy | A | A | P |
| | | | 05 | DeHon | A | A | P |
| | | | 06 | George | A | A | P |
| | | | 07 | Hickey | A | A | P |
| | | | 08 | Low | A | A | P |
| | | | 09 | Martin | A | A | P |
| | | | 10 | Murray | A | A | P |
| | | | 11 | Perona | A | A | P |
| | | | 12 | Schroder | A | A | P |
| | | | 13 | Schulman | A | A | P |
| | | | 14 | Winfree | A | A | P |
| | | | 15 | Wold | A | A | P |
| | | | CS/EE 181A | 3-6-3 | VISI Design Laboratory | 01 | Martin |
| CNS/Bi/Ph/CS 187 | 3-0-6 | Neural Computation | 01 | Winfree | TR 10:30 - 11:55 | 080 MRE | G |
| Ph/CS 219a | 3-0-6 | Quantum Computation | 01 | Kitaev | MW 09:00 - 10:25 | 107 DWN | |
| CS 280 | + | Research in Computer Science | 01 | Abu-Mostafa | A | A | P |
| | | | 02 | Barr | A | A | P |
| | | | 03 | Chandy | A | A | P |
| | | | 04 | DeHon | A | A | P |
| | | | 05 | George | A | A | P |
| | | | 06 | Hickey | A | A | P |
| | | | 07 | Low | A | A | P |
| | | | 08 | Martin | A | A | P |
| | | | 09 | Murray | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|--|---------|-------------|--------------------|----------|--------------|
| COMPUTER SCIENCE | | | | | | | |
| CS 280 | + | Research in Computer Science | 10 | Perona | A | A | P |
| | | | 11 | Schroder | A | A | P |
| | | | 12 | Schulman | A | A | P |
| | | | 13 | Winfrey | A | A | P |
| | | | 14 | Umans | A | A | P |
| CS 282A | + | Reading in Computer Science | 01 | Abu-Mostafa | A | A | P |
| | | | 02 | Barr | A | A | P |
| | | | 03 | Chandy | A | A | P |
| | | | 04 | DeHon | A | A | P |
| | | | 05 | George | A | A | P |
| | | | 06 | Hickey | A | A | P |
| | | | 07 | Low | A | A | P |
| | | | 08 | Martin | A | A | P |
| | | | 09 | Murray | A | A | P |
| | | | 10 | Perona | A | A | P |
| | | | 11 | Schroder | A | A | P |
| | | | 12 | Schulman | A | A | P |
| | | | 13 | Winfrey | A | A | P |
| CONTROL & DYNAMICAL SYSTEMS | | | | | | | |
| CDS090A | 0-0-9 | Senior Thesis in Control and Dynamical Systems | 01 | Murray | OM,T 15:00 - 15:55 | 110 STL | G |
| CDS101 | 2-0-4 | Principles of Feedback and Control | 01 | Murray | MF 14:00 - 14:55 | 74 JRG | |
| CDS110A | 3-0-6 | Introduction to Control of Physical Systems | 01 | Murray | MW 14:00 - 14:55 | 74 JRG | |
| Ae/CDS 125A | 3-0-6 | Spacecraft Systems Engineering | 01 | Sercel | OM,T 16:00 - 16:55 | 202 GUG | |
| CDS140A | 3-0-6 | Introduction to Dynamics | 01 | Mabuchi | TR 10:30 - 11:55 | 103 DWN | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|--|---------|------------|-------------------|-------------|--------------|
| CONTROL & DYNAMICAL SYSTEMS | | | | | | | |
| CDS190 | + | Independent Work in Control and Dynamical Systems | 01 | Staff | A | A | P |
| CDS201 | 3-0-6 | Applied Operator Theory | 01 | Beck | TR 09:00 - 10:25 | 206 TOM | |
| CDS212 | 3-0-6 | Introduction to Modern Control | 01 | Doyle | TR 13:00 - 14:55 | 125 STL | |
| CDS280 | + | Advanced Topics in Geometric Mechanics or Dynamical Systems Theory | 01 | Marsden | A | A | P |
| CDS300A | + | Research in Control and Dynamical Systems | 01 | Beck | A | A | P |
| | | | 02 | Burdick | A | A | P |
| | | | 03 | Doyle | A | A | P |
| | | | 04 | Fultz | A | A | P |
| | | | 05 | Koch | A | A | P |
| | | | 06 | Mabuchi | A | A | P |
| | | | 07 | Marsden | A | A | P |
| | | | 08 | Murray | A | A | P |
| | | | 09 | Perona | A | A | P |
| | | | 10 | Quartz | A | A | P |
| | | | 11 | Elowitz | A | A | P |
| ECONOMICS | | | | | | | |
| Ec 011 | 3-0-6 | Introduction to Economics | 01 | Plott | MWF 13:00 - 13:55 | LecHall BAX | |
| Ec 098A | + | Senior Research And Thesis | 01 | Dubin | A | A | P |
| | | | 02 | Komunjer | A | A | P |
| Ec 101 | 3-0-6 | Selected Topics in Economics **Not Offered** | 01 | Staff | A | A | |
| Ec 116 | 3-0-6 | Contemporary Socioeconomic Problems | 01 | Dubin | MW 10:30 - 11:55 | 237 BAX | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------|-------|--|----------------|--------------------------------|------------------------------------|--------------------|--------------|
| ECONOMICS | | | | | | | |
| Ec 121A | 3-0-6 | Theory of Value | 01 | Border | TR 10:30 - 11:55 | 25 BAX | |
| BEM/Ec 146 | 3-0-6 | Organization Design | 01 | Camerer | MW 13:30 - 14:55 | 127 BAX | |
| Ec/PS 160A | 3-3-3 | Laboratory Experiments in the Social Sciences <i>Taught concurrently with SS 260</i> | 01 | Plott | TR 08:30 - 09:55 | 218 BAX | |
| Ec/PS 172 | 3-0-6 | Noncooperative Games In Social Sciences | 01 | Binmore | MW 14:30 - 15:55 | 128 BAX | |
| PS/Ec 173 | 3-0-6 | Cooperation And Social Behavior **CANCELLED** | 01 | Echenique | A | A | |
| ELECTRICAL ENGINEERING | | | | | | | |
| APh/EE 009A | 2-2-2 | Solid-State Electronics for Integrated Circuits <i>Maximum enrollment: 80 students</i> | 01 | Scherer / DeRose | R 10:00 - 10:55 F 13:00 - 13:55 | 070 MRE 070 MRE | G |
| EE 020A | 3-3-3 | Electronics Laboratory | 01 | Rutledge | TR 14:30 - 15:55 | 080 MRE | |
| EE/CS 053 | + | Microprocessor Projects Laboratory | 01 | George | OM,W 16:00 - 16:55 | 070 MRE | |
| EE/CS 054 | + | Advanced Microprocessor Projects Laboratory | 01 | George | OM,W 16:00 - 16:55 | 070 MRE | |
| CS/EE/ME 075A | 2-0-1 | Introduction to Multi-Disciplinary Systems Engineering | 01 | Burdick / Murray / Brantley | OM,M 19:00 - 19:25 | 102 STL | |
| EE/CS 080A | 9-0-0 | Senior Thesis | 01 02 03 | Potter Winfrey Chandy | A A A | A A A | G G G |
| EE 091A | + | Experimental Projects in Electronic Circuits <i>Organizational Meetings: Tuesday 9/27 and Thursday 10/7</i> | 01 | Megdal | OM,TR 16:00 - 16:55 | 080 MRE | G |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------|-------|--|---------|----------------|-------------------|----------|--------------|
| ELECTRICAL ENGINEERING | | | | | | | |
| EE 099 | + | Advanced Work in Electrical Engineering | 01 | Burdick | A | A | P |
| | | | 02 | George | A | A | P |
| | | | 03 | Perona | A | A | P |
| EE 111 | 3-0-6 | Signals, Systems and Transforms | 01 | Vaidyanathan | TR 13:00 - 14:25 | 070 MRE | G |
| EE 113 | 3-3-3 | Feedback and Control Circuits | 01 | George | MW 14:30 - 15:55 | 080 MRE | |
| EE 114A | 3-0-6 | Analog Circuit Design | 01 | Hajimiri | WF 10:00 - 11:55 | 070 MRE | |
| EE/Ma 126A | 3-0-6 | Information Theory | 01 | McEliece | MWF 09:00 - 09:55 | 070 MRE | |
| CS/EE/Ma 129A | 3-0-6 | Information and Complexity | 01 | Abu-Mostafa | MWF 15:00 - 15:55 | 070 MRE | |
| APh/EE 130A | 3-0-6 | Optical System Design | 01 | Yang / Psaltis | TR 10:30 - 11:55 | 104 WAT | G |
| CS/EE 145A | 3-3-3 | Networking | 01 | Low | TR 10:30 - 11:55 | 74 JRG | |
| EE/CNS/CS 148 | 3-0-6 | Selected Topics in Computational Vision | 01 | Perona | TR 10:30 - 11:55 | 102 STL | |
| EE 150 | 3-0-3 | Seminar on Genomic Signal & Information Processing <i>On Tues. Sept. 28 class will meet in 070 Moore.</i> | 01 | Hassibi | T 16:00 - 16:55 | 080 MRE | |
| CS/CNS/EE 156A | 3-0-6 | Learning Systems | 01 | Abu-Mostafa | TR 14:00 - 15:55 | 102 STL | |
| EE/Ge 157A | 3-0-6 | Introduction To The Physics Of Remote Sensing | 01 | Van Zyl | WF 12:30 - 13:55 | 104 WAT | |
| EE 162 | 3-0-6 | Random Processes for Communication and Signal Processing | 01 | Arabshahi | MR 16:00 - 17:25 | 070 MRE | G |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------|-------|---|---------|--------------|------------------------------------|--------------------|--------------|
| ELECTRICAL ENGINEERING | | | | | | | |
| CS/EE 181A | 3-6-3 | VISI Design Laboratory | 01 | Martin | TR 13:15 - 14:45 | 74 JRG | |
| APh/EE 183A | 3-0-6 | Fundamentals of Electronic Devices | 01 | McGill | W 14:00 - 14:55 F 14:00 - 15:55 | 104 WAT 104 WAT | P |
| EE 185 | 3-0-6 | MEMS Technology & Devices | 01 | Tai | MW 13:00 - 14:25 | 070 MRE | |
| EE 191 | + | Advanced Work in Electrical Engineering | 01 | Abu-Mostafa | A | A | P |
| | | | 02 | Barish | A | A | P |
| | | | 03 | Bruck | A | A | P |
| | | | 04 | Burdick | A | A | P |
| | | | 05 | Culick | A | A | P |
| | | | 06 | Doyle | A | A | P |
| | | | 07 | Effros | A | A | P |
| | | | 08 | Fraser | A | A | P |
| | | | 09 | George | A | A | P |
| | | | 10 | Gould | A | A | P |
| | | | 11 | Hajimiri | A | A | P |
| | | | 12 | Koch | A | A | P |
| | | | 13 | Low | A | A | P |
| | | | 14 | McEliece | A | A | P |
| | | | 15 | McGill | A | A | P |
| | | | 16 | Murray | A | A | P |
| | | | 17 | Perona | A | A | P |
| | | | 18 | Pine | A | A | P |
| | | | 19 | Psaltis | A | A | P |
| | | | 20 | Quake | A | A | P |
| | | | 21 | Rutledge | A | A | P |
| | | | 22 | Scherer | A | A | P |
| | | | 23 | Scoville | A | A | P |
| | | | 24 | Tai | A | A | P |
| | | | 25 | Vaidyanathan | A | A | P |
| | | | 26 | Yariv | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------|-------|---|---------|--------------|-----------------|----------|--------------|
| ELECTRICAL ENGINEERING | | | | | | | |
| EE 191 | + | Advanced Work in Electrical Engineering | 27 | Zmuidzinis | A | A | P |
| EE 243A | 3-0-3 | Quantum Electronics Seminar | 01 | Yariv | W 17:00 - 17:55 | 104 WAT | P |
| EE 291 | + | Advanced Work in Electrical Engineering | 01 | Abu-Mostafa | A | A | P |
| | | | 02 | Yang | A | A | P |
| | | | 03 | Bruck | A | A | P |
| | | | 04 | Burdick | A | A | P |
| | | | 05 | Staff | A | A | P |
| | | | 06 | Doyle | A | A | P |
| | | | 07 | Effros | A | A | P |
| | | | 08 | Staff | A | A | P |
| | | | 09 | Staff | A | A | P |
| | | | 10 | Martin | A | A | P |
| | | | 11 | Hajimiri | A | A | P |
| | | | 12 | Koch | A | A | P |
| | | | 13 | Low | A | A | P |
| | | | 14 | McEliece | A | A | P |
| | | | 15 | Staff | A | A | P |
| | | | 16 | Murray | A | A | P |
| | | | 17 | Perona | A | A | P |
| | | | 18 | Staff | A | A | P |
| | | | 19 | Psaltis | A | A | P |
| | | | 20 | Staff | A | A | P |
| | | | 21 | Yariv | A | A | P |
| | | | 22 | Quartz | A | A | P |
| | | | 23 | Rutledge | A | A | P |
| | | | 24 | Roukes | A | A | P |
| | | | 25 | Scherer | A | A | P |
| | | | 26 | Staff | A | A | P |
| | | | 27 | Tai | A | A | P |
| | | | 28 | Vaidyanathan | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------|-------|---|----------|------------|---------------------------------------|----------|--------------|
| ELECTRICAL ENGINEERING | | | | | | | |
| EE 291 | + | Advanced Work in Electrical Engineering | 29 | Yariv | A | A | P |
| | | | 30 | Staff | A | A | P |
| | | | 31 | Hassibi | A | A | P |
| | | | 32 | Vahala | A | A | P |
| | | | 33 | Painter | A | A | P |
| | | | 34 | Avouac | A | A | P |
| | | | 35 | DeHon | A | A | P |
| | | | 36 | Psaltis | A | A | P |
| ENGINEERING | | | | | | | |
| E 002 | 1-0-0 | Frontiers in Engineering and Applied Science <i>The first class will meet on Wednesday, Oct. 6th.</i> | 01 | Murray | W 12:00 - 12:55 | 102 STL | P |
| E 010 | 1-0-2 | Technical Seminar Presentations <i>Organizational Meeting: Tue. 7:30-8:30 pm -- Maximum enrollment: 5 students per section</i> | 01 | Fender | OM,T 19:30 - 20:25 M 09:00 - 09:55 | 142 KCK | G |
| | | | 02 | Fender | OM,T 19:30 - 20:25 M 10:00 - 10:55 | 142 KCK | G |
| | | | 03 | Fender | OM,T 19:30 - 20:25 M 11:00 - 11:55 | 142 KCK | G |
| | | | 04 | Fender | OM,T 19:30 - 20:25 W 09:00 - 09:55 | 142 KCK | G |
| | | | 05 | Fender | OM,T 19:30 - 20:25 W 10:00 - 10:55 | 142 KCK | G |
| | | | 06 | Fender | OM,T 19:30 - 20:25 W 11:00 - 11:55 | 142 KCK | G |
| | | | 07 | Fender | OM,T 19:30 - 20:25 F 09:00 - 09:55 | 142 KCK | G |
| | | | 08 | Fender | OM,T 19:30 - 20:25 F 10:00 - 10:55 | 142 KCK | G |
| | | | 09 | Fender | OM,T 19:30 - 20:25 F 11:00 - 11:55 | 142 KCK | G |
| | | | E/ME 105 | 3-0-6 | Product Design | 01 | Pickar |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------------|-------|--|---------|--------------|-------------------------------------|--------------------|--------------|
| ENGINEERING | | | | | | | |
| E 150A | 1-0-0 | Engineering Seminar | 01 | Bhattacharya | A | A | P |
| ENGLISH | | | | | | | |
| En 001A | 3-0-6 | English as a Second Language | 01 | Geasland | TR 14:00 - 15:55 | 228 BCK | |
| En 001B | 3-0-6 | English as a Second Language | 01 | Fonseca | T 14:00 - 16:55 | A | |
| En 002 | 2-2-5 | Basic English Composition | 01 | Fonseca | R 14:00 - 16:55 | A | |
| Hum/En 005 | 3-0-6 | Major British Authors <i>Maximum enrollment: 15 students per section</i> | 01 | La Belle | T 09:00 - 10:55 R 09:00 - 09:55 | 117 DAB 117 DAB | |
| | | | 02 | La Belle | T 14:00 - 15:55 R 14:00 - 14:55 | 115 DAB 115 DAB | |
| | | | 03 | Gilmartin | T 09:00 - 10:55 R 09:00 - 09:55 | 115 DAB 115 DAB | |
| En 050 | 3-0-6 | Fundamentals of the Art of Poetry | 01 | Mandel | MR 15:00 - 15:55 T 03:00 - 03:55 | 210 BAX 19 BAX | |
| En 087 | 3-0-6 | Writing Fiction: The Imaginary <i>Maximum enrollment: 15 students per section</i> | 01 | Hall | TR 14:30 - 15:55 | 127 BAX | |
| En 128 | 3-0-6 | Modern and Contemporary Irish Literature | 01 | Gilmartin | T 19:00 - 21:55 | 117 DAB | |
| En 134 | 3-0-6 | The Career of Herman Melville | 01 | Weinstein | R 19:00 - 21:55 | 117 DAB | |
| En 181A | 3-0-6 | Classics of Science Fiction: 1940-70 <i>Maximum enrollment: 25 students</i> | 01 | Sutherland | R 19:30 - 22:25 | 127 BAX | |
| | | | 02 | Sutherland | W 19:30 - 22:25 | 25 BAX | |
| En 181B | 3-0-6 | The Renaissance: Texts and Practices | 01 | Zwicker | W 19:00 - 22:00 | 115 DAB | |
| ENGLISH AS A SECOND LANGUAGE | | | | | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|--|---------|------------|------------------------------------|--------------------|--------------|
| ENGLISH AS A SECOND LANGUAGE | | | | | | | |
| ESL101A | 3-0-0 | Oral Communication And Pronunciation | 01 | Laib | MW 17:00 - 18:55 | A | P |
| ESL101B | 3-0-0 | Oral Communication And Pronunciation | 01 | Geasland | TR 17:00 - 18:55 | A | P |
| ENVIRONMENTAL SCIENCE & ENGINEERING | | | | | | | |
| ESE090 | + | Undergraduate Laboratory Research in Environmental Science and Engineering | 01 | Randerson | A | A | P |
| | | | 02 | Flagan | A | A | P |
| | | | 03 | Hering | A | A | P |
| | | | 04 | Hoffmann | A | A | P |
| | | | 05 | Ingersoll | A | A | P |
| | | | 06 | Adkins | A | A | P |
| | | | 07 | Newman | A | A | P |
| | | | 08 | Leadbetter | A | A | P |
| | | | 09 | Seinfeld | A | A | P |
| | | | 10 | Wennberg | A | A | P |
| | | | 11 | Yung | A | A | P |
| | | | 12 | Schneider | A | A | P |
| ESE100 | + | Special Topics in Environmental Science and Engineering | 01 | Randerson | A | A | P |
| | | | 02 | Flagan | A | A | P |
| | | | 03 | Hering | A | A | P |
| | | | 04 | Hoffmann | A | A | P |
| | | | 05 | Ingersoll | A | A | P |
| | | | 06 | Adkins | A | A | P |
| | | | 07 | Newman | A | A | P |
| | | | 08 | Leadbetter | A | A | P |
| | | | 09 | Seinfeld | A | A | P |
| | | | 10 | Wennberg | A | A | P |
| | | | 11 | Yung | A | A | P |
| | | | 12 | Schneider | A | A | P |
| ESE101 | 3-0-0 | Current Problems in Environmental Science and Engineering | 01 | Leadbetter | T 09:00 - 09:55 R 09:00 - 09:55 | 111 KCK 151 ARM | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|--|---------|-----------------------|-------------------|----------|--------------|
| ENVIRONMENTAL SCIENCE & ENGINEERING | | | | | | | |
| ACM/ESE 118 | 3-0-6 | Methods in Applied Statistics and Data Analysis | 01 | Schneider | TR 10:30 - 11:55 | 155 ARM | |
| ESE144 | 3-0-6 | Applications of Aquatic Chemistry | 01 | Hering | TR 13:30 - 14:55 | 111 KCK | |
| ESE/Ge 148A | 3-0-6 | Global Environmental Science: Climate Change | 01 | Wennberg | MWF 14:00 - 14:55 | 162a SMD | |
| ESE150A | 1-0-0 | Seminar in Environmental Science and Engineering | 01 | Leadbetter | W 16:00 - 16:55 | 142 KCK | P |
| ESE/Bi 166 | 3-0-6 | Microbial Physiology | 01 | Leadbetter | MWF 09:00 - 09:55 | 008 TOM | |
| ESE/Ge 173 | 3-0-6 | Topics in Atmosphere and Ocean Dynamics | 01 | Ingersoll / Schneider | F 09:00 - 10:55 | 151 ARM | |
| ESE/Ch/Ge 175A | 3-0-6 | Environmental Organic Chemistry | 01 | Dalleska | MWF 10:00 - 10:55 | 106 SPL | |
| ESE200 | + | Advanced Topics in Environmental Science and Engineering | 01 | Randerson | A | A | P |
| | | | 02 | Flagan | A | A | P |
| | | | 03 | Hering | A | A | P |
| | | | 04 | Hoffmann | A | A | P |
| | | | 05 | Ingersoll | A | A | P |
| | | | 06 | Adkins | A | A | P |
| | | | 07 | Newman | A | A | P |
| | | | 08 | Leadbetter | A | A | P |
| | | | 09 | Seinfeld | A | A | P |
| | | | 10 | Wennberg | A | A | P |
| | | | 11 | Yung | A | A | P |
| | | | 12 | Schneider | A | A | P |
| ESE250 | + | Advanced Environmental Seminar | 01 | Randerson | A | A | P |
| | | | 02 | Flagan | A | A | P |
| | | | 03 | Hering | A | A | P |
| | | | 04 | Hoffmann | A | A | P |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|---|---------|------------|--|-------------------------------|--------------|
| ENVIRONMENTAL SCIENCE & ENGINEERING | | | | | | | |
| ESE250 | + | Advanced Environmental Seminar | 05 | Ingersoll | A | A | P |
| | | | 06 | Adkins | A | A | P |
| | | | 07 | Newman | A | A | P |
| | | | 08 | Leadbetter | A | A | P |
| | | | 09 | Seinfeld | A | A | P |
| | | | 10 | Wennberg | A | A | P |
| | | | 11 | Yung | A | A | P |
| | | | 12 | Schneider | A | A | P |
| ESE300 | + | Thesis Research | 01 | Randerson | A | A | P |
| | | | 02 | Flagan | A | A | P |
| | | | 03 | Hering | A | A | P |
| | | | 04 | Hoffmann | A | A | P |
| | | | 05 | Ingersoll | A | A | P |
| | | | 06 | Adkins | A | A | P |
| | | | 07 | Newman | A | A | P |
| | | | 08 | Leadbetter | A | A | P |
| | | | 09 | Seinfeld | A | A | P |
| | | | 10 | Wennberg | A | A | P |
| | | | 11 | Yung | A | A | P |
| | | | | | | 12 | Schneider |
| GEOLOGY | | | | | | | |
| Ge 011A | 3-3-3 | Introduction to Earth and Planetary Sciences: Earth as a Planet | 01 | Eiler | TR 13:00 - 13:55 F 15:00 - 15:55 W 19:00 - 20:55 | 267 ARM 267 ARM 267 ARM | |
| Ge 041A | + | Undergraduate Research and Bachelor's Thesis | 01 | Rossmann | A | A | P |
| | | | 02 | Kirschvink | A | A | P |
| Ge 100A | 1-0-0 | Geology Club | 01 | Kirschvink | R 16:00 - 16:55 | 151 ARM | |
| Ge 101 | 4-0-8 | Introduction to Geology and Geochemistry <i>Labs are scheduled to meet at 5-8PM on Oct. 4, 11, 18, & 25.</i> | 01 | Asimow | M 17:00 - 19:55 | 267 ARM | |
| | | | | | TR 13:00 - 14:55 | 251 ARM | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|--|---------|-----------------------|---------------------------------------|--------------------|--------------|
| GEOLOGY | | | | | | | |
| Ge 108 | 3-0-6 | Applications of Physics to the Earth Science | 01 | Ingersoll | OM,M 11:00 - 12:55 W 11:00 - 13:55 | 162 SMD 150 SMD | |
| Ge 112 | 3-5-4 | Geomorphology and Stratigraphy <i>Labs meet Tuesdays 7-10P & Thursdays 3-6P in 215 NMudd.</i> | 01 | Sieh | T 11:00 - 12:00 R 12:00 - 12:55 | 215 NMD 215 NMD | |
| Ge 114A | 3-4-2 | Mineralogy | 01 | Rossmann | MTR 15:00 - 15:55 WR 19:00 - 20:55 | 251 ARM 251 ARM | |
| Ge 114B | 0-2-1 | Mineralogy | 01 | Rossmann | W 14:00 - 16:55 | 267 ARM | |
| Ge 121A | 0-9-3 | Advanced Field and Structural Geology <i>Field Trip Dates Oct. 1-3, 15-17, & 29-31.</i> | 01 | Saleeby | R 19:00 - 20:55 | 215 NMD | |
| Ge/Ay 133 | 3-0-6 | The Formation, Evolution, and Detection of Planetary Systems | 01 | Brown | MWF 11:00 - 11:55 | 162 SMD | |
| Ge 136A | 1-0-2 | Regional Field Geology of the Southwestern United States <i>**OM on Wednesday, October 6th**</i> | 01 | Kirschvink | OM,W 12:00 - 12:25 | 215 NMD | P |
| Ge 142 | 3-0-6 | Organic Geochemistry | 01 | Sessions | MWF 10:00 - 10:55 | 251 ARM | |
| ESE/Ge 148A | 3-0-6 | Global Environmental Science: Climate Change | 01 | Wennberg | MWF 14:00 - 14:55 | 162a SMD | |
| EE/Ge 157A | 3-0-6 | Introduction To The Physics Of Remote Sensing | 01 | Van Zyl | WF 12:30 - 13:55 | 104 WAT | |
| Ge 167 | 3-0-6 | Planetary Physics | 01 | Sari | TR 09:00 - 10:25 | 162 SMD | |
| ESE/Ge 173 | 3-0-6 | Topics in Atmosphere and Ocean Dynamics | 01 | Ingersoll / Schneider | F 09:00 - 10:55 | 151 ARM | |
| ESE/Ch/Ge 175A | 3-0-6 | Environmental Organic Chemistry | 01 | Dalleska | MWF 10:00 - 10:55 | 106 SPL | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|--|---------|------------|--------------------|----------|--------------|
| GEOLOGY | | | | | | | |
| Ge 179A | 1-0-0 | Seismological Laboratory Seminar | 01 | Helmberger | F 16:00 - 16:55 | 256 SMD | P |
| CE/Ge 181 | 3-0-6 | Engineering Seismology | 01 | Heaton | OM,M 13:00 - 14:00 | 210 TOM | G |
| Ge 193 | 0-0-0 | Special Topics in Geophysics | 01 | Avouac | OM,A | A | |
| Ge 225A | 1-0-0 | Planetary Sciences Seminar | 01 | Aharonson | T 16:00 - 16:55 | 365 SMD | P |
| Ae/Ge/ME 266A | 3-0-6 | Dynamic Fracture and Frictional Faulting | 01 | Lapusta | MW 13:30 - 14:55 | 306 TOM | |
| Ge 282A | 1-0-0 | Division Seminar | 01 | Tromp | M 16:00 - 16:55 | 155 ARM | P |
| Ge 297 | + | Advanced Study | 01 | Adkins | A | A | P |
| | | | 02 | Ahrens | A | A | P |
| | | | 03 | Albee | A | A | P |
| | | | 04 | Asimow | A | A | P |
| | | | 05 | Blake | A | A | P |
| | | | 06 | Brown | A | A | P |
| | | | 07 | Clayton | A | A | P |
| | | | 08 | Eiler | A | A | P |
| | | | 09 | Farley | A | A | P |
| | | | 10 | Goldreich | A | A | P |
| | | | 11 | Gurnis | A | A | P |
| | | | 12 | Heaton | A | A | P |
| | | | 13 | Helmberger | A | A | P |
| | | | 14 | Ingersoll | A | A | P |
| | | | 15 | Kanamori | A | A | P |
| | | | 16 | Kirschvink | A | A | P |
| | | | 17 | Kulkarni | A | A | P |
| | | | 18 | Murray | A | A | P |
| | | | 19 | Newman | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|----------|-----------------|---------|------------|-----------|----------|--------------|
| GEOLOGY | | | | | | | |
| Ge 297 | + | Advanced Study | 20 | Randerson | A | A | P |
| | | | 21 | Richardson | A | A | P |
| | | | 22 | Rosakis | A | A | P |
| | | | 23 | Rossmann | A | A | P |
| | | | 24 | Saleeby | A | A | P |
| | | | 25 | Sieh | A | A | P |
| | | | 26 | Simons | A | A | P |
| | | | 27 | Stevenson | A | A | P |
| | | | 28 | Stock | A | A | P |
| | | | 29 | Stolper | A | A | P |
| | | | 30 | Taylor | A | A | P |
| | | | 31 | Tromp | A | A | P |
| | | | 32 | Wasserburg | A | A | P |
| | | | 33 | Wennberg | A | A | P |
| | | | 34 | Wernicke | A | A | P |
| | | | 35 | Orphan | A | A | P |
| | | | 36 | Yung | A | A | P |
| | | | 37 | Avouac | A | A | P |
| | | | 38 | Lapusta | A | A | P |
| | | | 39 | Aharonson | A | A | P |
| | | | 40 | Murray | A | A | P |
| | | | 41 | Newman | A | A | P |
| 42 | Sessions | A | A | P | | | |
| Ge 299 | + | Thesis Research | 01 | Adkins | A | A | P |
| | | | 02 | Ahrens | A | A | P |
| | | | 03 | Albee | A | A | P |
| | | | 04 | Asimow | A | A | P |
| | | | 05 | Blake | A | A | P |
| | | | 06 | Brown | A | A | P |
| | | | 07 | Clayton | A | A | P |
| | | | 08 | Eiler | A | A | P |
| | | | 09 | Farley | A | A | P |
| | | | 10 | Goldreich | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme | | | |
|-----------------|-------|-----------------|----------------|------------|--|----------|--------------|-----------------|---------|--|
| GEOLOGY | | | | | | | | | | |
| Ge 299 | + | Thesis Research | 11 | Heaton | A | A | P | | | |
| | | | 12 | Helmberger | A | A | P | | | |
| | | | 13 | Ingersoll | A | A | P | | | |
| | | | 14 | Kanamori | A | A | P | | | |
| | | | 15 | Kirschvink | A | A | P | | | |
| | | | 16 | Murray | A | A | P | | | |
| | | | 17 | Newman | A | A | P | | | |
| | | | 18 | Richardson | A | A | P | | | |
| | | | 19 | Rosakis | A | A | P | | | |
| | | | 20 | Rosman | A | A | P | | | |
| | | | 21 | Rosman | A | A | P | | | |
| | | | 22 | Saleeby | A | A | P | | | |
| | | | 23 | Sieh | A | A | P | | | |
| | | | 24 | Simons | A | A | P | | | |
| | | | 25 | Stevenson | A | A | P | | | |
| | | | 26 | Stock | A | A | P | | | |
| | | | 27 | Stolper | A | A | P | | | |
| | | | 28 | Taylor | A | A | P | | | |
| | | | 29 | Tromp | A | A | P | | | |
| | | | 30 | Wasserburg | A | A | P | | | |
| | | | 31 | Wennberg | A | A | P | | | |
| | | | 32 | Wernicke | A | A | P | | | |
| | | | 33 | Westphal | A | A | P | | | |
| | | | 34 | Yung | A | A | P | | | |
| | | | 35 | Aharonson | A | A | P | | | |
| | | | 36 | Lapusta | A | A | P | | | |
| | | | HISTORY | | | | | | | |
| | | | Hum/H 001A | 3-0-6 | East Asian History <i>Maximum enrollment: 15 students per section</i> | 01 | Wang | T 09:00 - 10:55 | 210 BAX | |
| | | | | | | | | R 09:00 - 09:55 | 210 BAX | |
| | | | | | | 02 | Wang | T 14:00 - 15:55 | 210 BAX | |
| | | | | | | | | R 14:00 - 14:55 | 210 BAX | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--|-------|--|---------|------------|------------------------------------|--------------------|--------------|
| HISTORY | | | | | | | |
| Hum/H 002 | 3-0-6 | American History <i>Maximum enrollment: 15 students per section</i> | 01 | Kousser | T 14:00 - 15:55 | 128 BAX | |
| | | | | | R 14:00 - 14:55 | 128 BAX | |
| | | | 02 | Kousser | T 19:30 - 21:25 | 128 BAX | |
| | | | | | F 14:00 - 14:55 | 128 BAX | |
| Hum/H 003A | 3-0-6 | European Civilization: The Classical and Medieval Worlds <i>Maximum enrollment: 15 students per section</i> | 01 | Brown | T 09:00 - 10:55 | 127 BAX | |
| | | | | | R 09:00 - 09:55 | 127 BAX | |
| | | | 02 | Brown | T 14:00 - 15:55 | 117 DAB | |
| | | | | | R 14:00 - 14:55 | 117 DAB | |
| Hum/H 003B | 3-0-6 | European Civilization: Early Modern Europe <i>Maximum enrollment: 15 students</i> | 01 | Hoffman | T 09:00 - 10:55 R 09:00 - 09:55 | 237 BAX 237 BAX | |
| H 040 | + | Reading in History | 01 | Lee | A | A | P |
| | | | 02 | Buchwald | A | A | P |
| H 097A | + | Junior Tutorial | 01 | Deverell | A | A | P |
| H 098A | + | Senior Tutorial | 01 | Staff | A | A | P |
| H 099A | 1-0-8 | Research Tutorial | 01 | Brown | A | A | P |
| | | | 02 | Staff | A | A | P |
| | | | 03 | Hoffman | A | A | P |
| HPS/H 160B | 3-0-6 | Einstein and His Generation: The History of Modern Physical Sciences | 01 | Martinez | TR 14:30 - 15:55 | 125 BAX | |
| HISTORY AND PHILOSOPHY OF SCIENCE | | | | | | | |
| HPS/H 160B | 3-0-6 | Einstein and His Generation: The History of Modern Physical Sciences | 01 | Martinez | TR 14:30 - 15:55 | 125 BAX | |
| HUMANITIES | | | | | | | |
| Hum/H 001A | 3-0-6 | East Asian History <i>Maximum enrollment: 15 students per section</i> | 01 | Wang | T 09:00 - 10:55 | 210 BAX | |
| | | | | | R 09:00 - 09:55 | 210 BAX | |
| | | | 02 | Wang | T 14:00 - 15:55 | 210 BAX | |
| | | | | | R 14:00 - 14:55 | 210 BAX | |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------|-------|--|---------|------------|------------------------------------|--------------------|--------------|
| HUMANITIES | | | | | | | |
| Hum/H 002 | 3-0-6 | American History <i>Maximum enrollment: 15 students per section</i> | 01 | Kousser | T 14:00 - 15:55 | 128 BAX | |
| | | | | | R 14:00 - 14:55 | 128 BAX | |
| | | | 02 | Kousser | T 19:30 - 21:25 | 128 BAX | |
| | | | | | F 14:00 - 14:55 | 128 BAX | |
| Hum/H 003A | 3-0-6 | European Civilization: The Classical and Medieval Worlds <i>Maximum enrollment: 15 students per section</i> | 01 | Brown | T 09:00 - 10:55 | 127 BAX | |
| | | | | | R 09:00 - 09:55 | 127 BAX | |
| | | | 02 | Brown | T 14:00 - 15:55 | 117 DAB | |
| | | | | | R 14:00 - 14:55 | 117 DAB | |
| Hum/H 003B | 3-0-6 | European Civilization: Early Modern Europe <i>Maximum enrollment: 15 students</i> | 01 | Hoffman | T 09:00 - 10:55 R 09:00 - 09:55 | 237 BAX 237 BAX | |
| Hum/En 005 | 3-0-6 | Major British Authors <i>Maximum enrollment: 15 students per section</i> | 01 | La Belle | T 09:00 - 10:55 R 09:00 - 09:55 | 117 DAB 117 DAB | |
| | | | 02 | La Belle | T 14:00 - 15:55 R 14:00 - 14:55 | 115 DAB 115 DAB | |
| | | | 03 | Gilmartin | T 09:00 - 10:55 R 09:00 - 09:55 | 115 DAB 115 DAB | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Hum/PI 008 | 3-0-6 | Right and Wrong <i>Maximum enrollment: 15 students</i> | 01 | Cowie | T 09:00 - 10:55 R 09:00 - 09:55 | 128 BAX 128 BAX | |
| Hum/PI 009 | 3-0-6 | Knowledge and Reality | 01 | Hitchcock | T 14:00 - 15:55 R 14:00 - 14:55 | 315 BAX 315 BAX | |
| | | | 02 | Hitchcock | T 19:15 - 21:15 R 19:15 - 20:15 | 115 DAB 115 DAB | |
| | | | | | | | |
| | | | | | | | |
| JET PROPULSION | | | | | | | |
| Ae/JP 103A | 3-0-6 | Propulsion, Dynamics, and Control of Aircraft | 01 | Krok | TR 10:30 - 11:55 | 308 FIR | G |
| LANGUAGES | | | | | | | |
| L 102A | 3-1-6 | Elementary French | 01 | Orcel | TWR 12:00 - 12:55 | 125 BAX | |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|-------|---|----------|------------------|--|-------------------------------|--------------|
| LANGUAGES | | | | | | | |
| L 103A | 3-0-6 | Intermediate French | 01 | De Bedts | M 12:00 - 12:55 TR 12:00 - 12:55 | 125 BAX 127 BAX | |
| L 104 | 3-0-6 | French Cinema | 01 | Orcel | MW 19:00 - 22:30 | 080 MRE | |
| L 106A | 5-1-4 | Elementary Japanese | 01 02 | Toner Toner | MTWRF 14:00 - 14:55 MTWRF 15:00 - 15:55 | 218 BAX 218 BAX | |
| L 107A | 5-1-4 | Intermediate Japanese <i>Also: Thursdays at Noon in 218 Bax & Fridays 2-3:40P in 117 DAB</i> | 01 | Hirata | M 14:00 - 14:55 T 14:00 - 14:55 W 14:00 - 14:55 | 117 DAB 19 BAX 125 BAX | G |
| L 108A | 3-1-6 | Advanced Japanese | 01 | Hirata | T 15:00 - 15:55 WF 11:00 - 11:55 | 33 BAX 117 DAB | G |
| L 110A | 3-1-6 | Elementary Spanish | 01 02 | Garcia Arjona | MWF 12:00 - 12:55 MW 17:00 - 17:55 T 16:00 - 16:55 | 127 BAX 125 BAX 125 BAX | |
| L 112A | 3-0-6 | Intermediate Spanish | 01 | Arjona | MW 19:00 - 19:55 T 19:00 - 19:55 | 125 BAX 237 BAX | |
| L 114A | 3-0-6 | Spanish Literature | 01 | Garcia | MTR 17:00 - 17:55 | 115 DAB | |
| L 130A | 3-1-6 | Elementary German | 01 02 | Aebi Aebi | MWR 13:00 - 13:55 MWR 14:00 - 14:55 | 237 BAX 237 BAX | |
| L 132A | 3-0-6 | Intermediate German | 01 | Washburn | MWR 12:00 - 12:55 | 115 DAB | |
| L 170A | 4-1-5 | Introduction to Chinese | 01 | Wang | MWF 14:00 - 14:55 | 210 BAX | |
| L 171A | 4-1-5 | Elementary Chinese | 01 | Wang | M 15:00 - 15:55 WF 15:00 - 15:55 | 127 BAX 210 BAX | |
| L 172A | 4-1-5 | Intermediate Chinese | 01 | Wang | MTW 19:00 - 19:55 | 127 BAX | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------------|-------|---|---------|------------|-------------------|-------------------------|--------------|
| LANGUAGES | | | | | | | |
| L 173A | 3-1-6 | Advanced Chinese | 01 | Wang | MW 08:10 - 09:35 | 127 BAX | |
| LAW | | | | | | | |
| Law135 | 3-0-6 | Law and Politics | 01 | Garrett | TR 13:00 - 14:25 | 142 KCK | G |
| MATERIALS SCIENCE | | | | | | | |
| MS 078A | + | Senior Thesis | 01 | Staff | A | A | P |
| MS 100 | + | Advanced Work in Materials Science | 01 | Ahn | A | A | P |
| | | | 02 | Atwater | A | A | P |
| | | | 03 | Colonius | A | A | P |
| | | | 04 | Fultz | A | A | P |
| | | | 05 | Goddard | A | A | P |
| | | | 06 | Haile | A | A | P |
| | | | 07 | Johnson | A | A | P |
| | | | 08 | Kornfield | A | A | P |
| | | | 09 | Lange | A | A | P |
| | | | 10 | Ustundag | A | A | P |
| MS 110A | 1-0-0 | Materials Research Lectures | 01 | Atwater | W 16:00 - 16:55 | 106 SPL | |
| MS 115A | 3-0-6 | Fundamentals of Materials Science **Formerly MS 015** | 01 | Fultz | MWF 13:00 - 13:55 | 142 KCK | |
| MS 131 | 3-0-6 | Structure and Bonding in Materials | 01 | Goddard | MWF 14:00 - 14:55 | 134 (Auditorium) BCK | |
| MS 200 | + | Advanced Work in Materials Science | 01 | Ahn | A | A | P |
| | | | 02 | Atwater | A | A | P |
| | | | 03 | Colonius | A | A | P |
| | | | 04 | Fultz | A | A | P |
| | | | 05 | Goddard | A | A | P |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------------|-------|--|---------|------------|---------------------------------------|-------------------------|--------------|
| MATERIALS SCIENCE | | | | | | | |
| MS 200 | + | Advanced Work in Materials Science | 06 | Haile | A | A | P |
| | | | 07 | Johnson | A | A | P |
| | | | 08 | Kornfield | A | A | P |
| | | | 09 | Lange | A | A | P |
| | | | 10 | Ustundag | A | A | P |
| | | | 11 | Asimow | A | A | P |
| | | | 12 | Cross | A | A | P |
| | | | 13 | Ortiz | A | A | P |
| MS 300 | + | Thesis Research | 01 | Ahn | A | A | P |
| | | | 02 | Atwater | A | A | P |
| | | | 03 | Asimow | A | A | P |
| | | | 04 | Fultz | A | A | P |
| | | | 05 | Goddard | A | A | P |
| | | | 06 | Haile | A | A | P |
| | | | 07 | Johnson | A | A | P |
| | | | 08 | Kornfield | A | A | P |
| | | | 09 | Lange | A | A | P |
| | | | 10 | Ustundag | A | A | P |
| | | | 11 | McGill | A | A | P |
| | | | | | | 12 | Cross |
| MATHEMATICS | | | | | | | |
| Ma 001A | 4-0-5 | Calculus of One and Several Variables and Linear Algebra <i>Maximum Enrollment: 17 students per section</i> | 01 | Manning | MTWF 10:00 - 10:55 R 19:30 - 20:55 | 257 SLN 153 SLN | P |
| | | | 02 | Schlag | MWF 10:00 - 10:55 R 10:00 - 10:55 | LecHall BAX 253b SLN | P |
| | | | 03 | Schlag | MWF 10:00 - 10:55 R 10:00 - 10:55 | LecHall BAX 11 DWN | P |
| | | | 04 | Schlag | MWF 10:00 - 10:55 R 10:00 - 10:55 | LecHall BAX 119 DWN | P |
| | | | 05 | Schlag | MWF 10:00 - 10:55 R 10:00 - 10:55 | LecHall BAX 22 GTS | P |
| | | | 06 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------|--------|---|---------|------------|-------------------|-------------|--------------|
| MATHEMATICS | | | | | | | |
| Ma 001A | 4-0-5 | Calculus of One and Several Variables and Linear Algebra <i>Maximum Enrollment: 17 students per section</i> | 06 | Schlag | R 10:00 - 10:55 | 27 GTS | P |
| | | | 07 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |
| | | | | | R 13:00 - 13:55 | 151 SLN | |
| | | | 08 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |
| | | | | | R 13:00 - 13:55 | 153 SLN | |
| | | | 09 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |
| | | | | | R 13:00 - 13:55 | 159 SLN | |
| | | | 10 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |
| | | | | | R 13:00 - 13:55 | 253b SLN | |
| | | | 11 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |
| | | | | | R 13:00 - 13:55 | 257 SLN | |
| | | | 12 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |
| | | | | | R 13:00 - 13:55 | 103 DWN | |
| | | | 13 | Schlag | MWF 10:00 - 10:55 | LecHall BAX | P |
| | | | | | R 13:00 - 13:55 | 107 DWN | |
| Ma 002A | 4-0-5 | Probability, Statistics, and Differential Equations <i>There will not be separate Practical & Analytical Tracks for this course. Maximum enrollment: 17 students per section</i> | 01 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | | | | R 10:00 - 10:55 | 159 SLN | |
| | | | 02 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | | | | R 10:00 - 10:55 | 257 SLN | |
| | | | 03 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | | | | R 10:00 - 10:55 | 119 KRK | |
| | | | 04 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | | | | R 10:00 - 10:55 | 123 LAU | |
| | | | 05 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | R 10:00 - 10:55 | 24 BBB | | | | |
| 06 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G | | | |
| | | R 10:00 - 10:55 | 010 TOM | | | | |
| 07 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G | | | |
| | | R 14:00 - 14:55 | 153 SLN | | | | |
| 08 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G | | | |
| | | R 14:00 - 14:55 | 159 SLN | | | | |
| 09 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G | | | |
| | | | | | R 14:00 - 14:55 | 253b SLN | |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------|-------|---|---------|--------------|-------------------|----------|--------------|
| MATHEMATICS | | | | | | | |
| Ma 002A | 4-0-5 | Probability, Statistics, and Differential Equations <i>There will not be separate Practical & Analytical Tracks for this course. Maximum enrollment: 17 students per section</i> | 10 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | | | | R 14:00 - 14:55 | 257 SLN | |
| | | | 11 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | | | | R 14:00 - 14:55 | 107 DWN | |
| | | | 12 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | R 14:00 - 14:55 | 11 DWN | | | | |
| | | | 13 | Lorden | MWF 10:00 - 10:55 | 22 GTS | G |
| | | | | | R 14:00 - 14:55 | 119 DWN | |
| Ma 005A | 3-0-6 | Introduction to Abstract Algebra | 01 | Aschbacher | MWF 09:00 - 09:55 | 151 SLN | |
| Ma/CS 006A | 3-0-6 | Introduction to Discrete Mathematics | 01 | Berger | MWF 13:00 - 13:55 | 159 SLN | |
| Ma 008A | 3-0-0 | Problem Solving in Calculus | 01 | Stoiciu | M 13:00 - 13:55 | 151 SLN | |
| | | | | | F 13:00 - 14:55 | 151 SLN | |
| Ma 010 | 2-0-1 | Oral Presentation | 01 | Dunfield | W 14:00 - 15:55 | 151 SLN | |
| Ma 017 | 2-0-2 | How to Solve It | 01 | Katz | T 19:30 - 21:30 | 159 SLN | P |
| Ma 092A | + | Senior Thesis | 01 | Aschbacher | A | A | P |
| | | | 02 | Baranovsky | A | A | P |
| | | | 03 | Bromberg | A | A | P |
| | | | 04 | Clemens | A | A | P |
| | | | 05 | Denissov | A | A | P |
| | | | 06 | Schulman | A | A | P |
| | | | 07 | Flach | A | A | P |
| | | | 08 | Grinshpan | A | A | P |
| | | | 09 | Kechris | A | A | P |
| | | | 10 | Lorden | A | A | P |
| | | | 11 | Ramakrishnan | A | A | P |
| | | | 12 | Schlag | A | A | P |
| | | | 13 | Simon | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------|-------|--|---------|--------------|-------------------|----------|--------------|
| MATHEMATICS | | | | | | | |
| Ma 092A | + | Senior Thesis | 14 | Wales | A | A | P |
| | | | 15 | Wilson | A | A | P |
| Ma 098 | + | Independent Reading <i>3 or 6 units</i> | 01 | Aschbacher | A | A | P |
| | | | 02 | Baranovsky | A | A | P |
| | | | 03 | Bromberg | A | A | P |
| | | | 04 | Clemens | A | A | P |
| | | | 05 | Denissov | A | A | P |
| | | | 06 | Goins | A | A | P |
| | | | 07 | Flach | A | A | P |
| | | | 08 | Grinshpan | A | A | P |
| | | | 09 | Kechris | A | A | P |
| | | | 10 | Lorden | A | A | P |
| | | | 11 | Ramakrishnan | A | A | P |
| | | | 12 | Schlag | A | A | P |
| | | | 13 | Simon | A | A | P |
| | | | 14 | Wales | A | A | P |
| | | | 15 | Wilson | A | A | P |
| | | | 16 | Chan | A | A | P |
| Ma 108A | 3-0-6 | Classical Analysis | 01 | Strahov | MWF 11:00 - 11:55 | 151 SLN | |
| Ma 109A | 3-0-6 | Introduction to Geometry and Topology | 01 | Gorodnik | MWF 10:00 - 10:55 | 159 SLN | |
| Ma 110A | 3-0-6 | Real and Complex Analysis | 01 | Goldberg | MWF 11:00 - 11:55 | 159 SLN | |
| Ma 112A | 3-0-6 | Statistics | 01 | Lorden | TR 14:30 - 15:55 | 151 SLN | |
| Ma/CS 117A | 3-0-6 | Computability Theory | 01 | Rosendal | TR 11:00 - 12:25 | 257 SLN | |
| Ma 120A | 3-0-6 | Abstract Algebra | 01 | Flach | MWF 09:00 - 09:55 | 159 SLN | |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------|-------|---|---------|-------------|------------------------------------|--------------------|--------------|
| MATHEMATICS | | | | | | | |
| Ma 121A | 3-0-6 | Combinatorial Analysis | 01 | Keevash | MTR 15:00 - 15:55 | 159 SLN | |
| EE/Ma 126A | 3-0-6 | Information Theory | 01 | McEliece | MWF 09:00 - 09:55 | 070 MRE | |
| CS/EE/Ma 129A | 3-0-6 | Information and Complexity | 01 | Abu-Mostafa | MWF 15:00 - 15:55 | 070 MRE | |
| Ma/ACM 142A | 3-0-6 | Ordinary and Partial Differential Equations | 01 | Goldberg | TR 11:00 - 12:25 | 153 SLN | |
| Ma 147A | 3-0-6 | Dynamical Systems | 01 | Gorodetski | MW 14:00 - 15:25 | 153 SLN | |
| Ma 151A | 3-0-6 | Topology and Geometry | 01 | Dunfield | MWF 10:00 - 10:55 | 153 SLN | |
| Ma 160A | 3-0-6 | Number Theory | 01 | Oh | WF 13:30 - 14:55 | 257 SLN | |
| Ma 162A | 3-0-6 | Topics in Number Theory | 01 | Tilouine | MW 14:00 - 15:25 | 253b SLN | |
| Ma 191A | 3-0-6 | R-trees in Group Theory and Topology | 01 | Groves | MW 15:30 - 16:55 | 257 SLN | |
| Ma 192A | 3-0-6 | Geometry of Graphs and Groups | 01 | Manning | TR 11:00 - 12:25 | 151 SLN | |
| Ma 193A | 3-0-6 | Topics in Logic and Dynamical Systems | 01 | Kechris | M 13:30 - 14:55 R 13:30 - 14:55 | 153 SLN 351 SLN | |
| Ma 290 | + | Reading | 01 | Aschbacher | A | A | P |
| | | | 02 | Baranovsky | A | A | P |
| | | | 03 | Bromberg | A | A | P |
| | | | 04 | Clemens | A | A | P |
| | | | 05 | Denissov | A | A | P |
| | | | 06 | Dunfield | A | A | P |
| | | | 07 | Flach | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------|-------|---------------------------------|---------|---------------------------------------|-----------|----------|--------------|
| MATHEMATICS | | | | | | | |
| Ma 290 | + | Reading | 08 | Grinshpan | A | A | P |
| | | | 09 | Kechris | A | A | P |
| | | | 10 | Lorden | A | A | P |
| | | | 11 | Ramakrishnan | A | A | P |
| | | | 12 | Schlag | A | A | P |
| | | | 13 | Simon | A | A | P |
| | | | 14 | Wales | A | A | P |
| | | | 15 | Wilson | A | A | P |
| | | | 16 | Goins | A | A | P |
| | | | 17 | Calegari | A | A | P |
| | | | 18 | Kaloshin | A | A | P |
| Ma 316A | + | Seminar in Mathematical Logic | 01 | Kechris | A | A | |
| Ma 324A | + | Seminar in Combinatorics | 01 | Wilson | A | A | |
| Ma 325A | + | Seminar in Algebra | 01 | Aschbacher / Wales | A | A | |
| Ma 345A | + | Seminar in Analysis | 01 | Makarov / Schlag / Borodin / Kaloshin | A | A | |
| Ma 348A | + | Seminar in Mathematical Physics | 01 | Simon | A | A | |
| Ma 351A | + | Seminar in Topology | 01 | Calegari / Dunfield / Oh | A | A | |
| Ma 360A | + | Seminar in Number Theory | 01 | Ramakrishnan / Flach | A | A | |
| Ma 390 | + | Research | 01 | Aschbacher | A | A | P |
| | | | 02 | Baranovsky | A | A | P |
| | | | 03 | Marsden | A | A | P |
| | | | 04 | Clemens | A | A | P |
| | | | 05 | Denissov | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme | | | |
|--------------------|--------|--|-------------------------------|-----------------------------|---------------------------------|----------|--------------|-------------------|---------|---|
| MATHEMATICS | | | | | | | | | | |
| Ma 390 | + | Research | 06 | Flach | A | A | P | | | |
| | | | 07 | Grinshpan | A | A | P | | | |
| | | | 08 | Kechris | A | A | P | | | |
| | | | 09 | Lorden | A | A | P | | | |
| | | | 10 | Makarov | A | A | P | | | |
| | | | 11 | Ramakrishnan | A | A | P | | | |
| | | | 12 | Schlag | A | A | P | | | |
| | | | 13 | Simon | A | A | P | | | |
| | | | 14 | Wales | A | A | P | | | |
| | | | 15 | Wilson | A | A | P | | | |
| | | | 16 | Dunfield | A | A | P | | | |
| | | | 17 | Calegari | A | A | P | | | |
| | | | 18 | Kaloshin | A | A | P | | | |
| | | | Ma 392 | + | Research Conference | 01 | Staff | A | A | P |
| | | | MECHANICAL ENGINEERING | | | | | | | |
| | | | ME 018A | 3-0-6 | Thermodynamics | 01 | Goodwin | MWF 09:00 - 09:55 | 206 TOM | |
| | | | ME 019A | 3-0-6 | Fluid Mechanics and Gasdynamics | 01 | Brennen | TR 10:30 - 11:55 | 08 TOM | |
| | | | AM/ME 035A | 3-0-6 | Statics and Dynamics | 01 | Ortiz | MWF 14:00 - 14:55 | 206 TOM | G |
| AM/ME 065 | 3-0-6 | Mechanics of Materials <i>Taught concurrently with Ae/AM/CE/ME 102A</i> | 01 | Bhattacharya | TR 09:00 - 10:25 | 101 GUG | | | | |
| ME 072 | 3-10-2 | Engineering Design Laboratory | 01 | Burdick | TR 13:00 - 14:25 | 306 TOM | G | | | |
| CS/EE/ME 075A | 2-0-1 | Introduction to Multi-Disciplinary Systems Engineering | 01 | Burdick / Murray / Brantley | OM,M 19:00 - 19:25 | 102 STL | | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------|-------|---|---------|--------------|-------------------|----------|--------------|
| MECHANICAL ENGINEERING | | | | | | | |
| ME 090A | 0-0-9 | Senior Thesis, Experimental | 01 | Hunt | A | A | G |
| ME 091A | 0-0-9 | Senior Thesis, Analytical | 01 | Hunt | A | A | G |
| ME 100 | + | Advanced Work in Mechanical Engineering | 01 | Antonsson | A | A | P |
| | | | 02 | Brennen | A | A | P |
| | | | 03 | Burdick | A | A | P |
| | | | 04 | Cham | A | A | P |
| | | | 05 | Colonus | A | A | P |
| | | | 06 | Culick | A | A | P |
| | | | 07 | Hunt | A | A | P |
| | | | 08 | Murray | A | A | P |
| | | | 09 | Phillips | A | A | P |
| | | | 10 | Staff | A | A | P |
| Ae/APh/CE/ME 101A | 3-0-6 | Fluid Mechanics | 01 | Pullin | MWF 10:00 - 10:55 | 101 GUG | G |
| Ae/AM/CE/ME 102A | 3-0-6 | Mechanics of Structures and Solids <i>Taught concurrently with AM/ME 65A</i> | 01 | Bhattacharya | TR 09:00 - 10:25 | 101 GUG | G |
| E/ME 105 | 3-0-6 | Product Design | 01 | Pickar | TR 14:30 - 15:55 | 08 TOM | |
| ME 110 | + | Special Laboratory Work in Mechanical Engineering | 01 | Antonsson | A | A | P |
| | | | 02 | Brennen | A | A | P |
| | | | 03 | Burdick | A | A | P |
| | | | 04 | Cham | A | A | P |
| | | | 05 | Colonus | A | A | P |
| | | | 06 | Culick | A | A | P |
| | | | 07 | Hunt | A | A | P |
| | | | 08 | Murray | A | A | P |
| | | | 09 | Phillips | A | A | P |
| ME 118 | 3-0-6 | Thermodynamics | 01 | Hunt | MWF 13:00 - 13:55 | 010 TOM | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-------------------------------|-------|---|---------|--------------|-------------------|----------|--------------|
| MECHANICAL ENGINEERING | | | | | | | |
| ME 200 | + | Advanced Work in Mechanical Engineerin | 01 | Antonsson | A | A | P |
| | | | 02 | Brennen | A | A | P |
| | | | 03 | Burdick | A | A | P |
| | | | 04 | Colonius | A | A | P |
| | | | 05 | Culick | A | A | P |
| | | | 06 | Hunt | A | A | P |
| | | | 07 | Murray | A | A | P |
| | | | 08 | Phillips | A | A | P |
| | | | 09 | Goodwin | A | A | P |
| | | | 10 | Fultz | A | A | P |
| | | | 11 | Pickar | A | A | P |
| | | | 12 | Bhattacharya | A | A | P |
| | | | 13 | Lapusta | A | A | P |
| Ae/AM/ME 209A | 1-0-0 | Seminar in Solid Mechanics | 01 | Ravichandran | A | A | P |
| Ae/AM/ME 225 | 3-0-6 | Special Topics in Solid Mechanics <i>First 5 classes will meet in 200 Karman Conference Room</i> | 01 | Ortiz | MWF 01:00 - 13:55 | 304 FIR | G |
| Ae/Ge/ME 266A | 3-0-6 | Dynamic Fracture and Frictional Faulting | 01 | Lapusta | MW 13:30 - 14:55 | 306 TOM | |
| ME 300 | + | Research in Mechanical Engineering | 01 | Antonsson | A | A | P |
| | | | 02 | Bellan | A | A | P |
| | | | 03 | Bhattacharya | A | A | P |
| | | | 04 | Bockrath | A | A | P |
| | | | 05 | Burdick | A | A | P |
| | | | 06 | Colonius | A | A | P |
| | | | 07 | Hunt | A | A | P |
| | | | 08 | Murray | A | A | P |
| | | | 09 | Ortiz | A | A | P |
| | | | 10 | Phillips | A | A | P |
| | | | 11 | Ravichandran | A | A | P |
| | | | 12 | Shepherd | A | A | P |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------------------|-------|------------------------------------|---------|------------|--------------------|------------------------|--------------|
| MECHANICAL ENGINEERING | | | | | | | |
| ME 300 | + | Research in Mechanical Engineering | 13 | Culick | A | A | P |
| | | | 14 | Haile | A | A | P |
| | | | 15 | Goodwin | A | A | P |
| | | | 16 | Brennen | A | A | P |
| | | | 17 | Leonard | A | A | P |
| | | | 18 | Lapusta | A | A | P |
| | | | 19 | Gharib | A | A | P |
| | | | 20 | Rosakis | A | A | P |
| MUSIC | | | | | | | |
| Mu 021 | 3-0-6 | Understanding Music | 01 | Neenan | MW 11:00 - 12:25 | 19 BAX | |
| Mu 034 | 3-0-6 | Music Of The Early Romantics | 01 | Neenan | MW 14:30 - 15:55 | 19 BAX | |
| PERFORMANCE AND ACTIVITIES | | | | | | | |
| PA 015A | 1-0-2 | Student Publications | 01 | Daily | F 12:00 - 12:55 | 40 SAC | P |
| PA 030A | 0-3-0 | Women's Glee Club | 01 | LaVertu | OM,M 17:00 - 17:55 | Basement BCK | P |
| PA 031A | 0-3-0 | Chamber Music | 01 | Bing | A | A | P |
| | | | 02 | Gross | A | A | P |
| PA 032A | 0-3-0 | Symphony Orchestra | 01 | Gross | T 19:30 - 22:15 | Ramo Auditorium BAX | P |
| PA 033A | 0-3-0 | Concert Band | 01 | Bing | R 19:15 - 21:15 | Ramo Auditorium BAX | P |
| PA 034A | 0-3-0 | Jazz Band | 01 | Bing | M 19:30 - 21:25 | Ramo Auditorium BAX | P |
| | | | | | R 21:30 - 22:55 | Ramo Auditorium BAX | |
| PA 035A | 0-3-0 | Guitar | 01 | Denning | T 16:30 - 17:25 | 01 SAC | P |
| | | | 02 | Denning | T 15:00 - 15:55 | 01 SAC | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------------------|-------|---|---------|-----------------|------------------------------------|------------------------------|--------------|
| PERFORMANCE AND ACTIVITIES | | | | | | | |
| PA 035A | 0-3-0 | Guitar | 03 | Denning | T 17:30 - 18:25 | 01 SAC | P |
| PA 036A | 0-3-0 | Men's Glee Club | 01 | Caldwell | M 19:30 - 21:25 W 17:00 - 17:55 | Basement BCK Basement BCK | P |
| PA 037A | 0-3-0 | Chamber Singers | 01 | Caldwell | T 17:00 - 18:25 | Basement BCK | P |
| PA 040A | 2-0-1 | Theater Arts | 01 | Marneus | OM,T 19:30 - 20:25 | Louge DAB | P |
| PA 050A | 1-1-1 | Health Advocates | 01 | Stapf | W 19:00 - 21:55 | YHC | P |
| PA 061A | 0-3-0 | Silkscreen and Airbrush | 01 | Barry | M 19:00 - 21:55 | 22 SAC | P |
| PA 062A | 0-3-0 | Drawing and Painting | 01 | Barry | T 19:00 - 21:55 | 23 SAC | P |
| PA 063A | 0-3-0 | Ceramics | 01 | Freed | W 19:00 - 21:55 | Ceramic Room POLY | P |
| PHILOSOPHY | | | | | | | |
| Hum/Pl 008 | 3-0-6 | Right and Wrong <i>Maximum enrollment: 15 students</i> | 01 | Cowie | T 09:00 - 10:55 R 09:00 - 09:55 | 128 BAX 128 BAX | |
| Hum/Pl 009 | 3-0-6 | Knowledge and Reality | 01 | Hitchcock | T 14:00 - 15:55 R 14:00 - 14:55 | 315 BAX 315 BAX | |
| | | | 02 | Hitchcock | T 19:15 - 21:15 R 19:15 - 20:15 | 115 DAB 115 DAB | |
| Pl 187 | 3-0-6 | Natural Justice | 01 | Binmore | W 19:00 - 21:55 | 315 BAX | |
| PHYSICAL EDUCATION | | | | | | | |
| PE 001A | 3-0-0 | Student Designed Fitness <i>See Instructors for schedule</i> | 01 | D'Auria / Uribe | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|---------------------------|-------|--|----------------|-------------------------------------|--|----------------------|--------------|
| PHYSICAL EDUCATION | | | | | | | |
| PE 002A | 3-0-0 | Skin Diving | 01 | Dodd | MF 14:00 - 14:55 | POOL BRN | P |
| PE 004A | 3-0-0 | Introduction to Power Walking <i>Cancelled</i> | 01 | Levesque | TR 14:00 - 14:55 | TRK BRN | P |
| PE 009A | 3-0-0 | Soccer | 01 | Uribe | MW 15:00 - 15:55 | SOF BRN | P |
| PE 010A | 3-0-0 | Aerobic Dance <i>See schedule at Braun Athletic Center</i> | 01 | Ruble | A | A | P |
| PE 014A | 3-0-0 | Basketball Skills, Beginning and Beginning/Intermediate <i>Cancelled</i> | 01 | Marbut | TR 15:00 - 15:55 | BRN | P |
| PE 020A | 3-0-0 | Fencing, Beginning and Intermediate/Advanced | 01 | Paffenroth | TR 19:00 - 19:55 | BRW | P |
| PE 023A | 3-0-0 | Track and Field, Beginning | 01 | Levesque | OM,M 16:00 - 16:55 | TRK BRN | P |
| PE 024A | 3-0-0 | Yoga, Beginning <i>Section 1) Beg 2) Beg/Int 3) Beg/Int</i> | 01 02 03 | Close-Pal Close-Pal Close-Pal | MW 16:00 - 16:55 TR 17:00 - 17:55 RF 15:00 - 15:55 | BAC BAC BAC | P P P |
| PE 027A | 3-0-0 | Ultimate Frisbee | 01 | Boortz / Landesman | MW 19:30 - 20:55 | SOF BRN | P |
| PE 030A | 3-0-0 | Golf; Beginning, Intermediate, And Advanced <i>Cancelled</i> | 01 | Dow | TR 10:00 - 10:55 | A | P |
| PE 035A | 3-0-0 | Diving, Beginning/Intermediate | 01 | Dodd | MF 13:00 - 13:55 | POOL BRN | P |
| PE 036A | 3-0-0 | Swimming, Beginning/Intermediate and Advanced | 01 02 | Dodd Dodd | TR 14:00 - 14:55 TR 15:00 - 15:55 | POOL BRN POOL BRN | P P |
| PE 044A | 3-0-0 | Karate (Shotokan), Beginning and Intermediate/Advanced | 01 02 | McClure McClure | MW 19:00 - 19:55 S 10:00 - 10:55 MW 20:00 - 20:55 | BAC BAC BAC | P P P |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|---------------------------|-------|---|---------|------------|---------------------|----------|--------------|
| PHYSICAL EDUCATION | | | | | | | |
| PE 044A | 3-0-0 | Karate (Shotokan), Beginning and Intermediate/Advanced | 02 | McClure | S 11:00 - 23:55 | BAC | P |
| PE 046A | 3-0-0 | Karate (Tang Soo Do), Beginning and Intermediate/Advanced | 01 | Hassan | TF 19:00 - 20:25 | BRW | P |
| | | | 02 | Hassan | TF 20:30 - 21:55 | BRW | P |
| PE 048A | 3-0-0 | T'ai-Chi Ch'uan, Beginning and Intermediate/Advanced | 01 | Zhu | TR 20:00 - 20:55 | BAC | P |
| PE 050A | 3-0-0 | Badminton, Beginning/Intermediate | 01 | Mao | OM,W 16:00 - 16:55 | BRW | P |
| PE 054A | 3-0-0 | Racquetball, Beginning and Intermediate/Advanced | 01 | Levesque | MW 14:00 - 14:55 | BAC | P |
| PE 056A | 3-0-0 | Squash; Beginning, Intermediate, Advanced | 01 | Bresanello | OM,T 17:00 - 17:55 | BAC | P |
| | | | 02 | Bresanello | OM,T 17:00 - 17:55 | BAC | P |
| PE 060A | 3-0-0 | Tennis; Beginning, Beginning/Intermediate, Intermediate, and Advanced | 01 | D'Auria | MW 12:00 - 12:55 | TCT BRN | P |
| | | | 02 | Gamble | TR 13:00 - 13:55 | TCT BRN | P |
| | | | 03 | Gamble | TR 12:00 - 12:55 | TCT BRN | P |
| | | | 04 | Gamble | MW 16:00 - 16:55 | TCT BRN | P |
| PE 070A | 3-0-0 | Weight Training, Beginning/Intermediate | 01 | Dow | MW 10:00 - 10:55 | BAC | P |
| | | | 02 | Marbut | TR 14:00 - 14:55 | BAC | P |
| | | | 03 | Marbut | TR 13:00 - 13:55 | BAC | P |
| PE 077A | 3-0-0 | Volleyball; Beginning, Intermediate, and Advanced <i>Cancelled</i> | 01 | D'Auria | MW 14:00 - 14:55 | BAC | P |
| PE 082A | 3-0-0 | Rock Climbing, Beginning and Intermediate **\$25.00 off-site facility fee | 01 | Scalise | OM,T 19:00 - 19:55 | BRW | P |
| PE 083A | 3-0-0 | Intercollegiate Basketball Team (Women) | 01 | Marbut | MTWRF 16:00 - 17:55 | BAC | P |
| PE 084A | 3-0-0 | Table Tennis, Beginning, Intermediate, and Advanced | 01 | Wang | R 19:00 - 20:55 | BRW | P |
| | | | 02 | Wang | M 13:00 - 14:55 | BRW | P |
| | | | 03 | Wang | R 21:00 - 22:55 | BRW | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|---------------------------|-----------|--|---------|------------|----------------------|----------|--------------|
| PHYSICAL EDUCATION | | | | | | | |
| PE 089A | 3-0-0 | Intercollegiate Fencing Team (Men and Women) | 01 | Paffenroth | MTR 20:00 - 21:55 | BRW | P |
| PE 090A | 3-0-0 | Intercollegiate Water Polo Team (Men) | 01 | Dodd | MTWRFS 16:00 - 17:55 | POOL BRN | P |
| PE 091A | 3-0-0 | Intercollegiate Basketball Team (Men) | 01 | Dow | MTWRFS 16:00 - 17:55 | BAC | P |
| PE 092A | 3-0-0 | Intercollegiate Soccer Team (Men) | 01 | Uribe | MTWRFS 16:00 - 17:55 | SOF BRN | P |
| PE 097A | 3-0-0 | Intercollegiate Cross Country Team (Men and Women) | 01 | Jung | MTWRFS 16:00 - 17:55 | TRK BRN | P |
| PE 099A | 3-0-0 | Intercollegiate Volleyball Team (Women) | 01 | Reger | MTWRFS 16:00 - 17:55 | BAC | P |
| PHYSICS | | | | | | | |
| Ph 001A | 4-0-5 | Classical Mechanics and Electromagnetism <i>Lecture Schedule: Wednesday/Friday 11:00-11:55 am in Bridge 201</i> | 01 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P |
| | | | | | MR 13:00 - 13:55 | 27 GTS | |
| | | | 02 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P |
| | | | | | MR 15:00 - 15:55 | 27 GTS | |
| | | | 03 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P |
| | | | | | MR 23:00 - 23:55 | 269 LAU | |
| | | | 04 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P |
| | | | | | MR 15:00 - 15:55 | 269 LAU | |
| | | | 05 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P |
| | | MR 13:00 - 13:55 | 119 DWN | | | | |
| 06 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P | | | |
| | | MR 15:00 - 15:55 | 119 DWN | | | | |
| 07 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P | | | |
| | | MR 13:00 - 13:55 | 123 LAU | | | | |
| 08 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P | | | |
| | | MR 15:00 - 15:55 | 11 DWN | | | | |
| 09 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P | | | |

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|--|---------|--------------------|--------------------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 001A | 4-0-5 | Classical Mechanics and Electromagnetism <i>Lecture Schedule: Wednesday/Friday 11:00-11:55 am in Bridge 201</i> | 09 | Goodstein | MR 13:00 - 13:55 | 11 DWN | P |
| | | | 10 | Goodstein | WF 11:00 - 11:55 | 201 BRG | P |
| | | | | | MR 15:00 - 15:55 | 123 LAU | |
| Ph 002A | 4-0-5 | Statistical Physics, Waves, and Quantum Mechanics <i>Lecture Schedule: Tuesdays/Thursdays 11:00 - 11:55 am. Recitation Schedule: see sections 1-7</i> | 01 | Lange | TR 11:00 - 11:55 | 201 BRG | G |
| | | | 02 | Lange | WF 09:00 - 09:55 | 11 DWN | G |
| | | | | | TR 11:00 - 11:55 | 201 BRG | G |
| | | | | | WF 11:00 - 11:55 | 11 DWN | G |
| | | | 03 | Lange | TR 11:00 - 11:55 | 201 BRG | G |
| | | | | | WF 11:00 - 11:55 | 269 LAU | G |
| | | | 04 | Lange | TR 11:00 - 11:55 | 201 BRG | G |
| | | | | | WF 13:00 - 13:55 | 107 DWN | G |
| Ph 003 | 0-6-0 | Physics Laboratory | 01 | Barish / Sannibale | OM,T 14:00 - 14:55 | 308 BRG | P |
| | | | 02 | Barish / Sannibale | OM,T 14:00 - 14:55 | 308 BRG | P |
| Ph 005 | 0-9-0 | Physics Laboratory | 01 | Sannibale / Barish | OM,T 15:00 - 15:55 | 201 BRG | G |
| Ph 010 | 2-0-1 | Frontiers in Physics | 01 | Soifer | M 13:00 - 14:55 | 469 LAU | P |
| Ph 011A | 2-0-4 | Research Tutorial | 01 | Tombrello | OM,A | 201 SLN | P |
| Ph 012A | 4-0-5 | Waves, Quantum Physics, and Statistical Mechanics | 01 | Kimble | TR 10:30 - 11:55 | 269 LAU | G |
| | | | | | M 14:00 - 14:55 | 123 LAU | |
| | | | | | T 20:00 - 20:55 | 123 LAU | |
| Ph 020 | 0-6-0 | Freshman/Sophomore Computational Physics Laboratory | 01 | Mach / Libbrecht | OM,M 15:00 - 15:55 | 304 BRG | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|--|---------|--------------------|--------------------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 021 | 0-6-0 | Freshman/Sophomore Computational Physics Lab | 01 | Mach / Libbrecht | OM,M 15:00 - 15:55 | 304 BRG | P |
| Ph 022 | 0-6-0 | Freshman/Sophomore Computational Physics Lab | 01 | Mach / Libbrecht | OM,M 15:00 - 15:55 | 304 BRG | P |
| Ph 076 | 0-9-0 | Atomic/Laser Physics Laboratory | 01 | Libbrecht / Black | OM,M 14:00 - 14:55 | 211 BRG | G |
| Ph 077A | 0-9-0 | Advanced Physics Laboratory | 01 | Black / Libbrecht | OM,M 15:00 - 15:55 | 210 BRG | G |
| Ph 078A | 9-0-0 | Senior Thesis Experimental | 01 | Frautschi | A | A | P |
| Ph 079A | 9-0-0 | Senior Thesis Theoretical | 01 | Frautschi | A | A | P |
| Ph 105 | 3-0-6 | Analog Electronics for Physicists | 01 | Sannibale / Barish | OM,T 15:00 - 15:55 | 201 BRG | G |
| Ph 106A | 3-0-6 | Topics in Classical Physics | 01 | Golwala | TR 10:30 - 11:55 | 107 DWN | |
| Ph 125A | 3-0-6 | Quantum Mechanics | 01 | Weinstein | MW 09:30 - 10:55 | 269 LAU | |
| Ph 129A | 3-0-6 | Mathematical Methods of Physics | 01 | Oguri | TR 09:00 - 10:25 | 103 DWN | |
| Ph 135A | 3-0-6 | Applications of Quantum Mechanics | 01 | Filippone | TR 13:00 - 14:25 | 269 LAU | |
| Ph 136A | 3-0-6 | Applications of Classical Physics | 01 | Thorne | MW 14:30 - 15:55 | 107 DWN | |
| Ph 171 | + | Reading and Independent Study | 01 | Barish | A | A | P |
| | | | 02 | Blandford | A | A | P |
| | | | 03 | Cross | A | A | P |
| | | | 04 | Kitaev | A | A | P |
| | | | 05 | Eisenstein | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|-------------------------------|---------|--------------|-----------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 171 | + | Reading and Independent Study | 06 | Filippone | A | A | P |
| | | | 07 | Vogel | A | A | P |
| | | | 08 | Goldreich | A | A | P |
| | | | 09 | Goodstein | A | A | P |
| | | | 10 | Gubser | A | A | P |
| | | | 11 | Harrison | A | A | P |
| | | | 12 | Hitlin | A | A | P |
| | | | 13 | Hughes | A | A | P |
| | | | 14 | Kamionkowski | A | A | P |
| | | | 15 | Kapustin | A | A | P |
| | | | 16 | Kimble | A | A | P |
| | | | 17 | Koonin | A | A | P |
| | | | 18 | Lange | A | A | P |
| | | | 19 | Libbrecht | A | A | P |
| | | | 20 | Mabuchi | A | A | P |
| | | | 21 | Martin | A | A | P |
| | | | 22 | McGill | A | A | P |
| | | | 23 | McKeown | A | A | P |
| | | | 24 | Oguri | A | A | P |
| | | | 25 | Peck | A | A | P |
| | | | 26 | Phillips | A | A | P |
| | | | 27 | Pine | A | A | P |
| | | | 28 | Politzer | A | A | P |
| | | | 29 | Porter | A | A | P |
| | | | 30 | Preskill | A | A | P |
| | | | 31 | Prince | A | A | P |
| | | | 32 | Ramakrishnan | A | A | P |
| | | | 33 | Rice III | A | A | P |
| | | | 34 | Roukes | A | A | P |
| | | | 35 | Scherer | A | A | P |
| | | | 36 | Schwarz | A | A | P |
| | | | 37 | Simon | A | A | P |
| | | | 38 | Stone | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-----------|----------------------------------|---------|--------------|-----------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 171 | + | Reading and Independent Study | 39 | Thorne | A | A | P |
| | | | 40 | Tombrello | A | A | P |
| | | | 41 | Vogt | A | A | P |
| | | | 42 | Weinstein | A | A | P |
| | | | 43 | Wise | A | A | P |
| | | | 44 | Yeh | A | A | P |
| | | | 45 | Zewail | A | A | P |
| | | | 46 | Zmuidzinas | A | A | P |
| | | | 47 | Stevenson | A | A | P |
| | | | 48 | Phinney | A | A | P |
| 49 | Golwala | A | A | P | | | |
| Ph 172 | + | Research in Experimental Physics | 01 | Barish | A | A | P |
| | | | 02 | Blandford | A | A | P |
| | | | 03 | Cross | A | A | P |
| | | | 04 | Koch | A | A | P |
| | | | 05 | Eisenstein | A | A | P |
| | | | 06 | Filippone | A | A | P |
| | | | 07 | Frautschi | A | A | P |
| | | | 08 | Goldreich | A | A | P |
| | | | 09 | Goodstein | A | A | P |
| | | | 10 | Gubser | A | A | P |
| | | | 11 | Harrison | A | A | P |
| | | | 12 | Hitlin | A | A | P |
| | | | 13 | Hughes | A | A | P |
| | | | 14 | Kamionkowski | A | A | P |
| 15 | Kapustin | A | A | P | | | |
| 16 | Kimble | A | A | P | | | |
| 17 | Phillips | A | A | P | | | |
| 18 | Golwala | A | A | P | | | |
| 19 | Libbrecht | A | A | P | | | |
| 20 | Mabuchi | A | A | P | | | |
| 21 | Martin | A | A | P | | | |
| 22 | McGill | A | A | P | | | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-----------|----------------------------------|---------|--------------|---------------------------------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 172 | + | Research in Experimental Physics | 23 | McKeown | A | A | P |
| | | | 24 | Oguri | A | A | P |
| | | | 25 | Lange | A | A | P |
| | | | 26 | Phillips | A | A | P |
| | | | 27 | Pine | A | A | P |
| | | | 28 | Politzer | A | A | P |
| | | | 29 | Porter | A | A | P |
| | | | 30 | Psaltis | A | A | P |
| | | | 31 | Prince | A | A | P |
| | | | 32 | Ramakrishnan | A | A | P |
| | | | 33 | Rice III | A | A | P |
| | | | 34 | Roukes | A | A | P |
| | | | 35 | Scherer | A | A | P |
| | | | 36 | Schwarz | A | A | P |
| | | | 37 | Simon | A | A | P |
| | | | 38 | Stone | A | A | P |
| | | | 39 | Thorne | A | A | P |
| | | | 40 | Tombrello | A | A | P |
| | | | 41 | Vogt | A | A | P |
| | | | 42 | Weinstein | A | A | P |
| | | | 43 | Wise | A | A | P |
| | | | 44 | Yeh | A | A | P |
| | | | 45 | Zewail | A | A | P |
| | | | 46 | Zmuidzinas | A | A | P |
| | | | 47 | Quake | A | A | P |
| | | | 48 | Ellis | A | A | P |
| | | | 49 | Newman | A | A | P |
| | | | 50 | Mewaldt | A | A | P |
| | | | 51 | Jensen | A | A | P |
| | | | Ph 173 | + | Research in Theoretical Physics | 01 | Barish |
| 02 | Blandford | A | | | | A | P |
| 03 | Cross | A | | | | A | P |
| 04 | Blain | A | | | | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|---------------------------------|---------|--------------|-----------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 173 | + | Research in Theoretical Physics | 05 | Eisenstein | A | A | P |
| | | | 06 | Filippone | A | A | P |
| | | | 07 | Frautschi | A | A | P |
| | | | 08 | Goldreich | A | A | P |
| | | | 09 | Goodstein | A | A | P |
| | | | 10 | Gubser | A | A | P |
| | | | 11 | Harrison | A | A | P |
| | | | 12 | Hitlin | A | A | P |
| | | | 13 | Hughes | A | A | P |
| | | | 14 | Kamionkowski | A | A | P |
| | | | 15 | Kapustin | A | A | P |
| | | | 16 | Kimble | A | A | P |
| | | | 17 | Sari | A | A | P |
| | | | 18 | Lange | A | A | P |
| | | | 19 | Libbrecht | A | A | P |
| | | | 20 | Mabuchi | A | A | P |
| | | | 21 | Martin | A | A | P |
| | | | 22 | McGill | A | A | P |
| | | | 23 | McKeown | A | A | P |
| | | | 24 | Oguri | A | A | P |
| | | | 25 | Marsden | A | A | P |
| | | | 26 | Phillips | A | A | P |
| | | | 27 | Pine | A | A | P |
| | | | 28 | Politzer | A | A | P |
| | | | 29 | Porter | A | A | P |
| | | | 30 | Preskill | A | A | P |
| | | | 31 | Prince | A | A | P |
| | | | 32 | Ramakrishnan | A | A | P |
| | | | 33 | Rice III | A | A | P |
| | | | 34 | Roukes | A | A | P |
| | | | 35 | Scherer | A | A | P |
| | | | 36 | Schwarz | A | A | P |
| | | | 37 | Simon | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|------------------|-------|--|---------|---------------|------------------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 173 | + | Research in Theoretical Physics | 38 | Stone | A | A | P |
| | | | 39 | Thorne | A | A | P |
| | | | 40 | Tombrello | A | A | P |
| | | | 41 | Vogt | A | A | P |
| | | | 42 | Weinstein | A | A | P |
| | | | 43 | Wise | A | A | P |
| | | | 44 | Yeh | A | A | P |
| | | | 45 | Zewail | A | A | P |
| | | | 46 | Zmuidzinas | A | A | P |
| | | | 47 | Phillips | A | A | P |
| | | | 48 | Adami | A | A | P |
| | | | 49 | Psaltis | A | A | P |
| | | | 50 | Kitaev | A | A | P |
| CNS/Bi/Ph/CS 187 | 3-0-6 | Neural Computation | 01 | Winfree | TR 10:30 - 11:55 | 080 MRE | G |
| Ph 205A | 3-0-6 | Relativistic Quantum Mechanics | 01 | Wise | TF 14:30 - 15:55 | 269 LAU | P |
| Ph/CS 219a | 3-0-6 | Quantum Computation | 01 | Kitaev | MW 09:00 - 10:25 | 107 DWN | |
| Ph 225A | 3-0-6 | Advanced Quantum Mechanics | 01 | Yeh / Mabuchi | MW 10:30 - 11:55 | 107 DWN | |
| Ph 229 | 3-0-6 | Advanced Mathematical Methods of Physics | 01 | Kapustin | MW 13:00 - 14:25 | 103 DWN | P |
| Ph 231A | 3-0-6 | High-Energy Physics | 01 | Porter | MW 14:30 - 15:55 | 103 DWN | |
| Ph 236A | 3-0-6 | General Relativity | 01 | Lindblom | MW 13:00 - 14:25 | 269 LAU | P |
| Ph 242A | 2-0-1 | Physics Seminar | 01 | Stone | F 10:30 - 11:55 | 114 BRG | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------|-------|-----------------|---------|--------------|-----------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 300 | + | Thesis Research | 01 | Barish | A | A | P |
| | | | 02 | Blandford | A | A | P |
| | | | 03 | Cross | A | A | P |
| | | | 04 | Kennedy | A | A | P |
| | | | 05 | Eisenstein | A | A | P |
| | | | 06 | Filippone | A | A | P |
| | | | 07 | Frautschi | A | A | P |
| | | | 08 | Goldreich | A | A | P |
| | | | 09 | Goodstein | A | A | P |
| | | | 10 | Gubser | A | A | P |
| | | | 11 | Harrison | A | A | P |
| | | | 12 | Hitlin | A | A | P |
| | | | 13 | Hughes | A | A | P |
| | | | 14 | Kamionkowski | A | A | P |
| | | | 15 | Kapustin | A | A | P |
| | | | 16 | Kimble | A | A | P |
| | | | 17 | Zewail | A | A | P |
| | | | 18 | Lange | A | A | P |
| | | | 19 | Libbrecht | A | A | P |
| | | | 20 | Mabuchi | A | A | P |
| | | | 21 | Martin | A | A | P |
| | | | 22 | McGill | A | A | P |
| | | | 23 | McKeown | A | A | P |
| | | | 24 | Oguri | A | A | P |
| | | | 25 | Peck | A | A | P |
| | | | 26 | Phillips | A | A | P |
| | | | 27 | Ellis | A | A | P |
| | | | 28 | Politzer | A | A | P |
| | | | 29 | Porter | A | A | P |
| | | | 30 | Preskill | A | A | P |
| | | | 31 | Prince | A | A | P |
| | | | 32 | Ramakrishnan | A | A | P |
| | | | 33 | Phinney | A | A | P |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------------|------------|---|---------|------------|-------------------|----------|--------------|
| PHYSICS | | | | | | | |
| Ph 300 | + | Thesis Research | 34 | Roukes | A | A | P |
| | | | 35 | Scherer | A | A | P |
| | | | 36 | Schwarz | A | A | P |
| | | | 37 | Simon | A | A | P |
| | | | 38 | Stone | A | A | P |
| | | | 39 | Thorne | A | A | P |
| | | | 40 | Tombrello | A | A | P |
| | | | 41 | Vogt | A | A | P |
| | | | 42 | Weinstein | A | A | P |
| | | | 43 | Wise | A | A | P |
| | | | 44 | Yeh | A | A | P |
| | | | 45 | Psaltis | A | A | P |
| | | | 46 | Preskill | A | A | P |
| | | | 47 | Lester | A | A | P |
| | | | 48 | Newman | A | A | P |
| | | | 49 | Hou | A | A | P |
| 50 | Painter | A | A | P | | | |
| 51 | Zmuidzinas | A | A | P | | | |
| 52 | Phillips | A | A | P | | | |
| 53 | Pine | A | A | P | | | |
| POLITICAL SCIENCE | | | | | | | |
| PS 012 | 3-0-6 | Introduction to Political Science | 01 | Kiewiet | MWF 13:00 - 13:55 | 25 BAX | |
| PS 120 | 3-0-6 | American Electoral Behavior And Party Strategy | 01 | Alvarez | MW 10:30 - 11:55 | 25 BAX | G |
| PS 132 | 3-0-6 | Formal Theories in Political Science | 01 | Ordeshook | TR 13:00 - 14:25 | 25 BAX | |
| Ec/PS 160A | 3-3-3 | Laboratory Experiments in the Social Sciences <i>Taught concurrently with SS 260</i> | 01 | Plott | TR 08:30 - 09:55 | 218 BAX | |
| Ec/PS 172 | 3-0-6 | Noncooperative Games In Social Sciences | 01 | Binmore | MW 14:30 - 15:55 | 128 BAX | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|--------------------------|-------|---|---------|------------|------------------|----------|--------------|
| POLITICAL SCIENCE | | | | | | | |
| PS/Ec 173 | 3-0-6 | Cooperation And Social Behavior **CANCELLED** | 01 | Echenique | A | A | |
| PSYCHOLOGY | | | | | | | |
| Psy015 | 3-0-6 | Social Psychology **CANCELLED** | 01 | Staff | A | A | |
| SOCIAL SCIENCE | | | | | | | |
| SS 098 | + | Reading in Social Science | 01 | Palfrey | A | A | P |
| SS 201A | 3-0-6 | Analytical Foundations of Social Science <i>Open to Graduate Students only</i> | 01 | Chambers | MW 14:30 - 15:55 | 33 BAX | |
| SS 202A | 3-0-6 | Political Theory <i>Open to Graduate Students Only</i> | 01 | Ordeshook | TR 10:30 - 11:55 | 125 BAX | |
| SS 205A | 3-0-6 | Foundations of Economics <i>Open to Graduate Students only</i> | 01 | Ledyard | TR 09:00 - 10:25 | 315 BAX | |
| SS 210A | 3-0-6 | Foundations of Political Economy | 01 | Chambers | T 13:00 - 15:55 | 237 BAX | |
| SS 211A | 3-0-6 | Advanced Economic Theory | 01 | Echenique | TR 10:30 - 11:55 | 315 BAX | |
| SS 213A | 3-0-6 | Financial Economics | 01 | Bossaerts | MW 13:00 - 14:25 | 315 BAX | |
| SS 222A | 3-0-6 | Econometrics <i>Open to Graduate Students only</i> | 01 | Sherman | MW 10:30 - 11:55 | 315 BAX | |
| SS 223A | 3-0-6 | Advanced Topics in Econometric Theory | 01 | Sherman | MW 14:30 - 15:55 | 315 BAX | |
| SS 231A | 3-0-6 | American Politics | 01 | Kiewiet | F 09:00 - 11:55 | 237 BAX | |

CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF THE REGISTRAR
Course Schedule FA 2004-05

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

| Course Offering | Units | Offering Title | Section | Instructor | Days/Time | Location | Grade Scheme |
|-----------------------|--------|--|---------|------------|------------------|-------------|--------------|
| SOCIAL SCIENCE | | | | | | | |
| SS 240 | 3-0-6 | Techniques of Policy Research | 01 | Dubin | MW 08:30 - 09:55 | 237 BAX | |
| SS 260 | 3-0-6 | Experimental Methods of Political Economy <i>Taught concurrently with Ec/PS 160</i> | 01 | Plott | TR 08:30 - 09:55 | 218 BAX | |
| SS 280 | 3-0-6 | Modern Topics in Social Science | 01 | Border | TR 14:30 - 15:55 | LecHall BAX | |
| SS 300 | + | Research in Social Science | 01 | Ledyard | A | A | P |
| | | | 02 | Sherman | A | A | P |
| | | | 03 | Plott | A | A | P |
| | | | 04 | Camerer | A | A | P |
| | | | 05 | Katz | A | A | P |
| | | | 06 | Palfrey | A | A | P |
| | | | 07 | Kunicova | A | A | P |
| | | | 08 | Bossaerts | A | A | P |
| | | | 09 | Echenique | A | A | P |
| | | | 10 | Kiewiet | A | A | P |
| | | | 11 | Alvarez | A | A | P |
| | | | 12 | Border | A | A | P |
| | | | 13 | Jackson | A | A | P |
| | | | 14 | Ordeshook | A | A | P |
| STUDY ABROAD | | | | | | | |
| CAM100 | 36-0-0 | Cambridge Colleges | 01 | Staff | A | A | P |
| CPH100 | 36-0-0 | Copenhagen Scholars Program | 01 | Staff | A | A | P |
| UCL100 | 0-0-0 | University College London | 01 | Staff | A | A | P |