



**T**o apply for admission to Caltech, please submit the Common Application and the Caltech Transfer Common Application Supplement, along with the application fee of \$60. The application deadline is **February 15, 2008**. We strongly encourage candidates to apply online by going to [app.commonapp.org](http://app.commonapp.org). The online versions of the Common Application and the Caltech Transfer Application Supplement are easy to use, they ensure quick and accurate transfer of your personal information to our database, and online applicants have the option of paying by credit card. Candidates are required to submit the Common Application and the Caltech Transfer Common Application Supplement together. Applications will not be considered complete until both forms are submitted together and via the same submission method. All application materials are imaged and evaluated online. Submissions that are bound or sent in folders may delay the application process.

### GENERAL TRANSFER POLICIES

- Applications for transfer admission will be considered from students who have completed their secondary school education and have subsequently enrolled at a college or university and earned credit for courses. Students concurrently enrolled in a secondary school and a college or university should apply for freshman admission. Freshman applications are due on January 2nd of each year, and are available from the Undergraduate Admissions Office website.
- Applications for transfer admission will not be considered from students who have already completed a bachelor's degree (or the equivalent) in any subject. Such students must apply for graduate admission. Graduate applications are available from the Graduate Office, [gradoffice.caltech.edu](http://gradoffice.caltech.edu).
- Transfer students are admitted for the fall term only.

### ACADEMIC PREREQUISITES

All Caltech students take a common core curriculum that includes five terms of math, five terms of physics, two terms of chemistry, and one term of biology regardless of their major ("option" at Caltech). Transfer students are expected to have followed the Caltech core curriculum as closely as possible. The core curriculum is described on the third page of these instructions. There are no specific requirements for topics to be covered in humanities and social science classes.

**The Upperclass Admissions Committee strongly recommends that every applicant complete at least one year of calculus and calculus-based physics at your postsecondary institution before applying as a transfer student.**

### TESTS AND EXAMS

Transfer applicants are **not** required to submit SAT scores. However, the Test of English as a Foreign Language (TOEFL) is required of transfer applicants whose native language is not English and who have not been studying in an English-speaking country for two or more years. The TOEFL should be taken by the January test date.

To receive information about overseas TOEFL administrations, including registration forms, please use the following contact information:

TOEFL Services  
Educational Testing Service  
P.O. Box 6151  
Princeton, NJ 08541-6151, USA  
PHONE 609.771.7100  
FAX 609.771.7500  
WEB [www.toefl.org](http://www.toefl.org)  
E-MAIL [toefl@ets.org](mailto:toefl@ets.org)

## **The Transfer Entrance Exam**

All transfer applicants are required to take Caltech Transfer Entrance Examinations in mathematics and physics. There is an exam for each of these two subjects. **You will take these exams on your current campus, proctored by a faculty member of your choosing.** In March, after the Undergraduate Admissions Office has received your completed application and entrance examination proctor agreement form, you will receive further instructions regarding the exams.

**Sample exams or exam questions are not available.** Students who have taken at least one year of university-level course work in each examined discipline should be sufficiently well-prepared to take the transfer exams. The mathematics exam covers basic calculus, with additional sections on linear algebra, vector calculus, and differential equations. In physics, the exam covers mechanics and electromagnetism. You will be sent further details on the content and format of each exam after the Undergraduate Admissions Office has received your completed application and entrance examination proctor agreement form. Note that the Upperclass Admissions Committee gives consideration to the level of each applicant's course preparation when it evaluates exam performance. Exams taken for admission in one year are not considered for admission in any subsequent year. **The transfer exams must be completed and in the possession of the Caltech Undergraduate Admissions Office on or before April 1, 2008.**

## **TRANSFER CREDIT**

The scores from the entrance exams are used for admissions purposes only and are not used to determine course credit. Any courses for which enrolling students will receive credit, and students' corresponding class standing at Caltech, will be determined by Caltech faculty at the time of enrollment. Therefore, it is not possible to know in advance how much course credit will be awarded upon matriculation at Caltech.

## **THE TRANSFER APPLICATION**

### **The Common Application and the Caltech Transfer Common Application Supplement**

The Common Application and the Caltech Transfer Common Application Supplement are available online at [app.commonapp.org](http://app.commonapp.org). Some of the questions we ask on the supplement are similar to the questions asked on the Common Application; please repeat the answers to similar questions again on our Application Supplement.

If you feel you do not have enough space to answer any of the questions asked, please feel free to use the Supplement Additional Information section (if applying online) or add additional sheets to your Supplement (if applying by mail). Please follow our format for additional information and do not refer us to an attached resume. If you submit the Supplement online, we strongly suggest that you use the "print preview" option to look at your materials before submitting them.

### **Evaluation Forms**

Caltech requires Faculty Evaluation forms from two math or science, or engineering faculty. The College Official Report must be completed by a school official, i.e., a counselor or academic advisor. A proctor agreement form is also required from the faculty member you select to proctor your transfer entrance exam. This document will be mailed to you after we receive your transfer application.

### **Research Papers**

If you have research experience in math, science or engineering, you are welcome to submit a copy of any research paper or report you have written. Papers must be submitted as PDF files and emailed to: [papers@admissions.caltech.edu](mailto:papers@admissions.caltech.edu). Please clearly mark your full name and birth date on your submission. To assure consideration, papers should be submitted no later than the application deadline. Papers that do not have your name and birthdate clearly indicated on the first page of the paper submission may not be considered.

## **Other Materials**

If you would like to submit additional materials (CDs, music, written submissions, or art samples) you may mail them to our office postmarked by our application deadline. Please note that we may not always use supplemental materials in our evaluation process but sometimes find them helpful. All supplementary materials should be clearly labeled with your full name and date of birth. Supplemental materials cannot be returned. While Caltech requires two math or science professor recommendation letters, you are also encouraged to submit a letter of evaluation from mentors or supervisors you have worked with during your research experience.

## **FINANCIAL AID INFORMATION**

### *U.S. Citizens and Permanent Residents*

To apply for Caltech need-based aid, please complete the CSS PROFILE online at <https://profileonline.collegeboard.com> by January 15, 2008. Use Caltech's code: 4034.

Complete the FAFSA (Free Application for Federal Student Aid) online at <http://www.fafsa.ed.gov>. The form will be available on January 1, 2008 and must be submitted by January 15, 2008. Fill out the form using Caltech's federal code: 00113.

### *International Students*

Financial assistance is currently not available for international transfer and 3/2 candidates. International transfer students must demonstrate the ability to pay the full cost of attendance for each year they expect to attend Caltech. The cost of attendance for 2007-2008 is \$44,745.

Please complete the 2008-2009 Caltech International Student Supplemental Form available at <http://admissions.caltech.edu/applying/forms>, and mail it directly to: Admissions Office, MC 1-94, California Institute of Technology, Pasadena, CA 91125 by January 15, 2008.

## Caltech Core Curriculum First-Year Courses:

- Ma 1 abc: *Calculus of One and Several Variables and Linear Algebra.* Review of calculus. Complex numbers, Taylor polynomials, infinite series. Comprehensive presentation of linear algebra. Derivatives of vector functions, multiple integrals, line and path integrals, theorems of Green and Stokes.
- Ph 1 abc: *Classical Mechanics and Electromagnetism.* Introductory classical and modern physics. Newtonian mechanics, electricity and magnetism, special relativity. Emphasis on physical insight and problem solving.
- Ch 1 ab: *General Chemistry.* Electronic structure of atoms, periodic properties, ionic substances, covalent bonding, Lewis representations of molecules and ions, shapes of molecules, Lewis acids and bases, Bronsted acids and bases, hybridization and resonance, bonding in solids, chemical equilibria, oxidation and reduction, thermodynamics, kinetics, introduction to organic chemistry and the chemistry of life.
- Ch 3 a: *Fundamental Techniques of Experimental Chemistry.* Introduces the basic principles and techniques of synthesis and analysis and develops the laboratory skills and precision that are fundamental to experimental chemistry.
- Bi 1: *Drugs and the Brain.* This course introduces nonbiologists to recent advances in biology, biomedical science, and applied biology.
- One of the following "menu" courses: Astronomy 1, Geology 1, Math 7, Chemistry 2, or Environmental Science and Engineering 1.

H&SS: Humanities and Social Science electives.

## Caltech Core Curriculum Second-Year Courses:

- Ma 2 ab: *Probability, Statistics, and Differential Equations.* Probability, statistics, ordinary differential equations.
- Ph 2 ab: *Statistical Physics, Waves, and Quantum Mechanics.* Statistical physics, classical waves, introductory quantum mechanics.
- or**
- Ph12 abc: *Waves, Quantum Physics, and Statistical Mechanics.* Classical waves; wave mechanics, interpretation of the quantum wave-function, one-dimensional bound states, scattering, and tunneling; thermodynamics, introductory kinetic theory, and quantum statistics.
- Lab: Additional introductory laboratory.
- H&SS: Humanities and Social Science electives.

## OPTIONS (Majors) and CONCENTRATIONS of STUDY

### Biology

- Biology

### Chemistry and Chemical Engineering

- Chemical Engineering\*
- Chemistry
  - Biochemistry*
  - Chemical Physics*
  - Inorganic Chemistry*
  - Organic Chemistry*

### Engineering and Applied Science

- Applied and Computational Mathematics
- Applied Physics
- Computer Science
- Control and Dynamical Systems
- Electrical Engineering
  - Communications and Signal Processing*
  - Control*
  - Electronic Circuits*
  - Microwave and Radio Engineering*
  - Optoelectronics*
  - Solid-State Electronics*
- Engineering and Applied Science
  - Aeronautics*
  - Computational & Neural Systems*
  - Environmental Science and Engineering*
  - Materials Science*
  - Structural Mechanics*
- Mechanical Engineering

### Geological and Planetary Sciences

- Geobiology
- Geochemistry
- Geology
- Geophysics
- Planetary Science

### Humanities and Social Sciences

- Business Economics and Management
- Economics
- English
- History
- History and Philosophy of Science
- Philosophy
- Social Science

### Physics, Math, and Astronomy

- Astrophysics
- Mathematics
- Physics

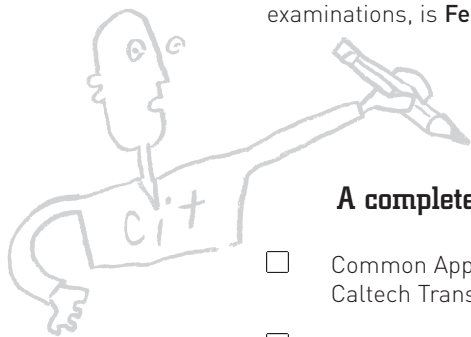
### Independent Studies Program

*This program allows students to design, with faculty advice, a customized course of study to investigate topics not covered by any of the traditional options.*

*\* Chemical Engineering majors select 1 of 4 tracks: biomolecular, environmental, process systems, or materials.*

## Transfer Admission Checklist

The following is a checklist of all the documents that are required as part of the transfer admissions process. The postmark deadline for each item, with the exception of completed transfer entrance examinations, is **February 15, 2008**.



### A complete transfer application includes:

- Common Application for Transfer Admission and Caltech Transfer Common Application Supplement
- Entrance Examination Proctor Agreement Form
- Math/Science/Engineering Faculty Evaluation Forms (two are required)
- College Official's Report
- Official academic transcripts from the last secondary school attended, and all colleges or universities attended
- Topics and names of textbooks for all college math, science, and engineering courses taken
- Application fee in the amount of \$60 (U.S. dollars).
- Official TOEFL score (if applicable)
- Entrance Examinations in Mathematics and Physics (exams will be sent to your proctor in March 2008; they must be in the possession of the Caltech Undergraduate Admissions Office on or before April 1, 2008).
- International Student Supplemental Form (if applicable)

**admissions.caltech.edu**



### Questions?

If you have additional questions, we would be happy to assist you. Please feel free to contact the Office of Undergraduate Admissions:

PHONE (626) 395-6341  
FAX (626) 683-3026  
EMAIL [ugadmissions@caltech.edu](mailto:ugadmissions@caltech.edu)

Contact a counselor:  
[admissions.caltech.edu/contact](http://admissions.caltech.edu/contact)

### Mailing address

(for paper applications, teacher recommendation forms and supplemental materials):

California Institute of Technology  
Office of Undergraduate Admissions  
Mail code 1-94  
Pasadena, California 91125