CLAIRED TREVOR SCHOOL OF THE ARTS

Majors:
Arts and Humanities
Dance

Specializations (B.F.A. only):
Choreography
Performance

Music

Emphases (B.A. only):
Composition
Music History
Music Theory
Performance

Specializations (B.Mus. only):
Guitar and Lute Performance
Instrumental Performance
Bassoon
Clarinet
Double Bass
Flute
Horn
Oboe
Percussion
Trombone
Trumpet
Tuba
Viola
Violin
Violoncello

Jazz Studies

Bass
Percussion
Piano
Saxophone
Trombone
Trumpet
Piano Performance
Vocal Performance

Music Theatre

Studio Art

Concentration: Game Culture and Technology (available to currently enrolled students majoring in Studio Art, Computer Science, Informatics, or Information and Computer Science)

Minors:
Digital Arts
Drama

Concentration: Medieval Studies (in combination with any major in the Claire Trevor School of the Arts or the School of Humanities)

SCHOOL OF BIOLOGICAL SCIENCES

Majors:
Biochemistry and Molecular Biology
Biological Sciences
Developmental and Cell Biology
Ecology and Evolutionary Biology
Genetics
Microbiology and Immunology

THE PAUL MERAGE SCHOOL OF BUSINESS

Majors:
Business Administration

Specializations:
Accounting
General Management
Marketing

Business Information Management (offered jointly with the Donald Bren School of Information and Computer Sciences)

Minors:
Accounting
Management

3-2 Program:
Available to outstanding undergraduates in all majors*
*The Henry Samueli School of Engineering majors should contact their academic counselor.

THE HENRY SAMUELI SCHOOL OF ENGINEERING

Majors:
Aerospace Engineering
Biomedical Engineering

Specializations:
Biophotonics
Micro and Nano Biomedical Engineering
Biomedical Engineering: Premedical

Chemical Engineering

Specializations:
Biochemical Engineering
Environmental Engineering
Materials Science

Civil Engineering

Concentrations:
Computer Applications
Engineering Management
Infrastructure Planning
Mathematical Methods

Specializations:
General Civil Engineering
Environmental Hydrology and Water Resources
Structural Engineering
Transportation Systems Engineering

Computer Engineering

Computer Science and Engineering (offered jointly with the Donald Bren School of Information and Computer Sciences)

Tracks:
Algorithms
Artificial Intelligence
Graphics/Vision
Parallel and Distributed Computing

Electrical Engineering
Specializations:
- Electro-optics and Solid-State Devices
- Power Electronics and Power Systems
- Systems and Signal Processing

Engineering

Environmental Engineering

Materials Science Engineering
Specializations:
- Biomaterials
- Electronics Processing and Materials
- Materials and Mechanical Design

Mechanical Engineering
Specializations:
- Aerospace Engineering
- Energy Systems and Environmental Engineering
- Flow Physics and Propulsion Systems
- Design of Mechanical Systems

Minors:
- Biomedical Engineering
- Materials Science Engineering

**SCHOOL OF HUMANITIES**

Majors:
- African American Studies
- Art History
- Asian American Studies
- Chinese Studies
  Emphases:
  - Chinese Culture and Society
  - Chinese Language and Literature
  - Classical Civilization
  - Classics
  Emphases:
  - Greek
  - Latin
- Comparative Literature
  Specialization: Cultural Studies
- East Asian Cultures
- English
  Emphasis: Creative Writing
- European Studies
  Emphases:
  - British Studies
  - Early Modern Europe
  - Encounters with the Non-European World
  - French Studies
  - German Studies
  - Italian Studies
  - Medieval Studies
  - The Mediterranean World: Past and Present
  - Modern Europe (1789–Present)
  - Russian Studies
  - Spanish-Portuguese Studies

Film and Media Studies
- French
- German Studies
- Global Cultures
  Emphases:
  - Atlantic Rim
  - Hispanic, U.S. Latino/Latina, and Luso-Brazilian Culture
  - Africa (Nation, Culture) and its Diaspora
  - Asias (Nation, Culture) and its Diaspora
  - Europe and its Former Colonies
  - Pacific Rim

Inter-Area Studies
- Humanities and Arts
- Humanities (Interdisciplinary)
- Japanese Language and Literature
- Korean Literature and Culture
- Latin
- Literary Journalism
- Philosophy
- Religious Studies
  Emphases:
  - Judaism/Christianity/Islam
  - World Religious Traditions
- Spanish
  Emphases:
  - Cinema: Spain, Latin America, and U.S. Latino Literature and Culture
  - Spanish for Future Teachers

Women’s Studies
- African American Studies
- Archaeology
- Art History
- Asian American Studies
- Asian Studies
- Chinese Language and Literature
- Classical Civilization
- Comparative Literature
- English
- European Studies
- Film and Media Studies
- French
- German Studies
- Global Cultures
- Greek
- History
- Humanities and Law
- Italian Studies
- Japanese Language and Literature
- Jewish Studies
- Korean Literature and Culture
- Latin
- Latin American and Caribbean Studies
- Philosophy
- Portuguese
- Queer Studies
- Religious Studies
- Russian Studies
- Spanish

Women’s Studies
Concentration: Medieval Studies (in combination with any major in the Claire Trevor School of the Arts or the School of Humanities)

**DONALD BREN SCHOOL OF INFORMATION AND COMPUTER SCIENCES**

Majors:
- Business Information Management (offered jointly with The Paul Merage School of Business)
- Computer Science
- Computer Science and Engineering (offered jointly with The Henry Samueli School of Engineering)

Tracks:
- Algorithms
- Artificial Intelligence
- Graphics/Vision
- Parallel and Distributed Computing

Informatics
Specializations:
Software Engineering
Human-Computer Interaction
Organizations and Information Technology

Information and Computer Science
Specializations:
- Artificial Intelligence
- Computer Systems
- Implementation and Analysis of Algorithms
- Information Systems
- Networks and Distributed Systems
- Optimization
- Software Systems

Concentrations:
- Engineering and Computer Science in the Global Context (by approval of the Associate Dean, in combination with any major in the Bren School of ICS)
- Game Culture and Technology (available to currently enrolled students majoring in Computer Science, Informatics, Information and Computer Science, or Studio Art)

Minors:
- Informatics
- Information and Computer Science
- Statistics

INTERDISCIPLINARY STUDIES

Majors:
- Business Information Management (offered jointly by The Paul Merage School of Business and the Donald Bren School of Information and Computer Sciences)

Computer Science and Engineering (offered jointly by the Donald Bren School of Information and Computer Sciences and The Henry Samueli School of Engineering)

Tracks:
- Algorithms
- Artificial Intelligence
- Graphics/Vision
- Parallel and Distributed Computing

Minors:
- Civic and Community Engagement
- Global Sustainability
- History and Philosophy of Science
- Native American Studies

SCHOOL OF PHYSICAL SCIENCES

Majors:
- Chemistry
- Concentrations:
  - Biochemistry
  - Chemistry Education
  - Earth and Environmental Sciences
  - Earth and Environmental Studies

Mathematics
Concentration: Mathematics for Economics
Specializations:
- Applied and Computational Mathematics
- Mathematics for Education
- Statistics

Physics
Concentrations:
- Applied Physics
- Biomedical Physics
- Computational Physics
- Philosophy of Physics
- Physics Education

Specialization: Astrophysics

Minors:
- Earth and Atmospheric Sciences
- Mathematics

SCHOOL OF SOCIAL ECOLOGY

Majors:
- Criminology, Law and Society
- Psychology and Social Behavior
- Social Ecology
- Urban Studies

Minors:
- Criminology, Law and Society
- Environmental Design
- Psychology and Social Behavior
- Urban and Regional Planning
- Urban Studies

SCHOOL OF SOCIAL SCIENCES

Majors:
- Anthropology
- Business Economics
  - Specialization: International Issues and Economics
- Chicano/Latino Studies
  - Economics
  - Specialization: International Issues and Economics
- International Studies
- Political Science
- Psychology
- Quantitative Economics
  - Social Science
  - Specialization: International Issues and Economics

Sociology

Minors:
- Anthropology
- Chicano/Latino Studies
- Conflict Resolution
- Economics
- Linguistics
- Medical Anthropology
- Political Science
- Psychology
- Sociology

COLLEGE OF HEALTH SCIENCES

Majors:
- Nursing Science
- Pharmaceutical Sciences
- Public Health Policy
- Public Health Sciences
- Minor: Public Health

Minors:
- Earth and Atmospheric Sciences
- Mathematics
AREAS OF GRADUATE STUDY
For information about any area of graduate or professional study, including the precise title of the degree conferred, consult the Catalogue’s academic unit sections.

Claire Trevor School of the Arts
Acting
Choral Conducting
Collaborative Piano
Dance
Design
Directing
Drama
Drama and Theatre
Guitar/Lute Performance
Instrumental Performance
Integrated Composition, Improvisation, and Technology (ICIT)
Piano Performance
Stage Management
Studio Art
Vocal Arts

School of Biological Sciences
Anatomy and Neurobiology
Biological Chemistry
Biological Sciences
Biotechnology; Stem Cell Biology
Cellular and Molecular Biosciences (CMB)
Developmental and Cell Biology
Ecology and Evolutionary Biology
Experimental Pathology
Interdepartmental Neuroscience Program (INP)
Mathematical and Computational Biology
Medicinal Chemistry and Pharmacology (MCP)
Microbiology and Molecular Genetics
Molecular Biology and Biochemistry
Neurobiology and Behavior
Physiology and Biophysics

The Paul Merage School of Business
Business Administration
Executive M.B.A. (EMBA)
Fully Employed M.B.A. (FEMBA)
Health Care Executive M.B.A. (HCEMBA)
Management

Department of Education
Education
Elementary and Secondary Education
Multiple Subjects Credential (elementary)
Single Subject Credential (secondary)
Single Subject Credential in Mathematics, English, or Science with an Internship
Bilingual Crosscultural, Language, and Academic Development (BCLAD) Emphasis in Spanish
Preliminary Administrative Services
Professional Clear Administrative Services

The Henry Samueli School of Engineering
Biomedical Engineering
Chemical and Biochemical Engineering
Civil Engineering
Civil Engineering/Urban and Regional Planning
Computer Graphics and Visualization
Computer Networks and Distributed Computing
Computer Systems and Software
Electrical Engineering
Environmental Engineering

Materials and Manufacturing Technology
Materials Science and Engineering
Mechanical and Aerospace Engineering
Networked Systems

School of Humanities
Asian American Studies
Art History
Chicano/Latino Literature
Chinese Language and Literature
Classics
Comparative Literature
Creative Nonfiction
Creative Writing: Poetry or Fiction
Critical Theory
Culture and Theory
East Asian Cultural Studies
East Asian Languages and Literatures
English and American Literature
Feminist Studies
Film and Media Studies
French
German
Greek
History
History of Gender and Sexuality
Humanities
Japanese Language and Literature
Latin
Philosophy
Spanish
Spanish Literature
Spanish-American Literature
Translation Studies
Visual Studies

Donald Bren School of Information and Computer Sciences
Computer Science
Critical Practices in Art, Science and Technology (CPAST)
Embedded Systems
Informatics
Information and Computer Science
Networked Systems
Statistics

Interdisciplinary Graduate Programs
Critical Practices in Art, Science and Technology (CPAST)
Cellular and Molecular Biosciences (CMB)
Chemical and Materials Physics
Interdepartmental Neuroscience Program (INP)
Mathematical and Computational Biology
Mathematical Behavioral Sciences
Medicinal Chemistry and Pharmacology (MCP)
Networked Systems
Transportation Science
Visual Studies

School of Law
Law (J.D.)

School of Physical Sciences
Chemical and Materials Physics
Chemistry
Chemistry and Teaching Credential
Earth System Science
Mathematics
Mathematics and Teaching Credential
Medicinal Chemistry and Pharmacology (MCP)
Physics

School of Social Ecology
Criminology, Law and Society
Demographic and Social Analysis
Environmental Analysis and Design
Epidemiology and Public Health
Planning, Policy, and Design
Psychology and Social Behavior
Social Ecology
Urban and Regional Planning
Urban and Regional Planning/Civil Engineering

School of Social Sciences
Anthropology
Chicano/Latino Studies
Cognitive Neuroscience
Cognitive Sciences
Demographic and Social Analysis
Economics
Games, Decisions, and Dynamical Systems
Logic and Philosophy of Science
Mathematical Behavioral Sciences
Political Psychology
Political Science
Psychology
Public Choice
Social Networks
Social Science
Sociology
Transportation Economics

College of Health Sciences
Nursing Science
Public Health

School of Medicine
Anatomy and Neurobiology
Biological Chemistry
Cellular and Molecular Biosciences (CMB)
Environmental Toxicology
Epidemiology and Public Health
Experimental Pathology
Genetic Counseling
Interdepartmental Neuroscience Program (INP)
Medical Residency Programs
Medical Scientist Program (M.D./Ph.D.)
Medicinal Chemistry and Pharmacology (MCP)
Medicine
Medicine/Business Administration
Microbiology and Molecular Genetics
Pharmacology and Toxicology
Physiology and Biophysics
Program in Medical Education for the Latino Community (PRIME-LC)