Summary of Curricula Offered

Types of Curricula Offered
San Diego State University offers the following types of curricula:

Undergraduate Curricula. Undergraduate curricula provide the following opportunities for study:
1. **Liberal arts and sciences**: Curricula in the academic major fields, leading to the Bachelor of Arts degree in liberal arts and sciences.
2. **Applied arts and sciences**: Curricula in major fields leading to the Bachelor of Science, Bachelor of Arts, Bachelor of Fine Arts in Dance, or Bachelor of Music degree in applied arts and sciences.
3. **Professional curricula**: The Fowler College of Business offers the Bachelor of Science degree in business administration with majors in seven fields; the College of Engineering offers the Bachelor of Science degree in engineering with majors in six fields; and the College of Education offers curricula in teacher education leading to graduate credentials at all levels of public school teaching.
4. **Preprofessional and nondegree curricula**: Programs are offered in allied health, premedical, prelegal, premedical, and preveterinary leading to transfer to professional schools. Air Force, Army, and Naval ROTC programs are also available.

Graduate Curricula. The Division of Graduate Affairs offers curricula in the various colleges and departments leading to the Master of Arts and Master of Science degrees in a wide variety of fields, the Master of Arts in Teaching, the Master of Business Administration, the Master of Business Administration and Juris Doctor, the Master of City Planning, the Master of Engineering, the Master of Fine Arts in Art, the Master of Fine Arts in Creative Writing, the Master of Fine Arts in Film and Television Production, the Master of Fine Arts in Theatre Arts, the Master of Music, the Master of Public Administration, the Master of Public Health, the Master of Social Work, and the Master of Social Work and Juris Doctor.

Also offered are the Educational Specialist in school psychology (Ed.S.), the Doctor of audiology (Au.D.), the Doctor of Education in educational leadership (Ed.D.), the Doctor of Physical Therapy (D.P.T.), and Doctor of Philosophy (Ph.D.) in biology (cell and molecular), chemistry, clinical psychology, computational science, ecology, education, engineering sciences (bioengineering), engineering sciences (electrical and computer engineering), engineering sciences (mechanical and aerospace engineering), engineering sciences (structural engineering), evolutionary biology, geography, geophysics, interdisciplinary research on substance use, language and communicative disorders, mathematics and science education, and public health.

Degrees, Credentials, and Certificates
San Diego State University offers the following authorized graduate degrees, credentials, and advanced certificates at the post-baccalaureate level:

**Doctor of Philosophy**
The Doctor of Philosophy degree is offered in the following fields:
- Biology (Cell and Molecular)
- Chemistry
- Clinical Psychology
- Computational Science
- Ecology
- Education
- Engineering Sciences (Bioengineering)
- Engineering Sciences (Electrical and Computer Engineering)
- Engineering Sciences (Mechanical and Aerospace Engineering)
- Engineering Sciences (Structural Engineering)
- Evolutionary Biology
- Geophysics
- Geography
- Interdisciplinary Research on Substance Use
- Language and Communicative Disorders
- Mathematics and Science Education
- Public Health/Epidemiology
- Public Health/Global Health
- Public Health/Health Behavior

**Doctor of Education**
Educational Leadership:
- Community College/Postsecondary Leadership
- PreK-12 Leadership

**Professional Doctorates**
The professional doctorate degree is offered in the following fields:
- Audiology
- Doctor of Physical Therapy

**Educational Specialist**
The educational specialist degree is offered in the following field:
- Ed.S. in School Psychology

**Master Of Fine Arts**
The Master of Fine Arts degree is offered in the following fields:
- Art
- Creative Writing
- Film and Television Production
- Theatre Arts

**Master of Arts**
The Master of Arts degree is offered in the following fields:
- Anthropology
- Art
- Asian Studies
- Biology
- Chemistry
- Chicana and Chicano Studies
- Communication
- Economics
- Education
- English
- French
- Geography
- History
- Interdisciplinary Studies
- Latin American Studies
- Learning Design and Technology
- Linguistics
- Mathematics
- Music
- Philosophy
- Physics
- Political Science
- Psychology
- Rhetoric and Writing Studies
- Sociology
- Spanish
- Speech, Language, and Hearing Sciences
- Teaching
- Theatre Arts
- Women’s Studies
The Master of Science degree is offered in the following fields:
- Accountancy
- Aerospace Engineering
- Applied Mathematics
- Astronomy
- Big Data Analytics
- Bioengineering
- Bioinformatics and Medical Informatics
- Biology
- Business Administration
- Chemistry
- Child Development
- Civil Engineering
- Computational Science
- Computer Science
- Counseling
- Criminal Justice and Criminology
- Electrical Engineering
- Exercise Physiology
- Geography
- Geological Sciences
- Gerontology
- Homeland Security
- Hospitality and Tourism Management
- Information Systems
- Interdisciplinary Studies
- Kinesiology
- Mechanical Engineering
- Medical Physics
- Microbiology
- Nursing
- Nutritional Sciences
- Physics
- Psychology
- Public Health
- Regulatory Affairs
- Rehabilitation Counseling
- Statistics

**Graduate Concentrations**

A concentration is defined as an aggregate of courses within a degree major designed to give a student specialized knowledge, competence, or skill. Completion of a concentration is noted on the student’s transcript.

**Applied Mathematics (M.S.)**

Concentrations:
- Dynamical Systems
- Mathematical Theory of Communication Systems

**Art (M.A.)**

Concentrations:
- Art History
- Studio Arts

**Bioinformatics and Medical Informatics (M.S.)**

Concentration: Professional Science Master

**Biology (M.A. or M.S.)**

Concentrations:
- Ecology
- Evolutionary Biology
- Molecular Biology
- Physiology

**Business Administration (M.S.)**

Concentrations:
- Entrepreneurship
- Finance
- Financial and Tax Planning
- Information Systems
- International Business Management
- Marketing
- Real Estate
- Supply Chain Management
- Taxation

**Child Development (M.S.)**

Concentration: Early Childhood Mental Health

**Civil Engineering (M.S.)**

Concentration: Environmental Engineering

**Computational Science**

Concentration (M.S.):
- Data Science
- Professional Applications

**Counseling (M.S.)**

Concentrations:
- Marriage and Family Therapy
- Multicultural Community Counseling
- Community-Based Block
- School Counseling
- School Psychology

**Education (M.A.)**

Concentrations:
- Counseling
- Dual Language and English Learner Education
- Educational Leadership
- Elementary Curriculum and Instruction
- Mathematics Education
- Reading Education
- Secondary Curriculum and Instruction
- Special Education

**Geography (M.S.)**

Concentrations:
- Geographic Information Science
- Watershed Science

**Nursing (M.S.)**

Concentrations:
- Advanced Practice Nursing of Adults and the Elderly
- Community Health Nursing
- Nursing Education
- Nursing Leadership in Health Care Systems
- Women’s Health and Midwifery

**Psychology (M.S.)**

Concentrations:
- Applied Psychology: Program Evaluation
- Applied Psychology: Industrial and Organizational Psychology
- Clinical Psychology (included within the Ph.D. program; not available separately)

**Public Administration (M.P.A.)**

Concentrations:
- City Planning
- Criminal Justice Administration

**Public Health**

Concentrations (M.P.H.):
- Biometry
- Environmental Health Epidemiology
- Health Management and Policy
- Health Promotion and Behavioral Science

Concentrations (M.S.):
- Environmental Health Sciences
- Epidemiology (Ph.D.):
- Global Health
- Health Behavior

**Rehabilitation Counseling (M.S.)**

Concentration:
- Clinical Rehabilitation and Clinical Mental Health Counseling

**Speech, Language, and Hearing Sciences (M.A.)**

Concentrations:
- Communicative Sciences
- Speech-Language Pathology

**Statistics (M.S.)**

Concentration:
- Biostatistics

**Teaching (M.A.T.)**

Concentrations:
- Elementary Education
- Language Arts Education (Summer only)
- Mathematics Education
- Reading/Language Arts Education
- Science Education
- Secondary Education

**Theatre Arts (M.F.A.)**

Concentrations:
- Acting
- Design and Technology
- Musical Theatre
Summary of Curricula Offered

Credentials Offered

Added Authorizations
Bilingual, with an emphasis in biliteracy for K-12

Teaching Credentials
Multiple subject; internship
Multiple subject bilingual 2042
Mild/Moderate Disabilities; internship
Multiple subject and special education bilingual (Spanish)
Single subject; internship
Single subject bilingual 2042

Specialist Credentials
BCLAD
Reading and literacy leadership
Special education:
  Early Childhood Special Education; mild moderate disabilities and moderate to severe disabilities credential
  Early Childhood Special Education, preliminary and clear; internship credential
  Mild/Moderate Disabilities, preliminary and clear; internship credential
  Moderate/Severe Disabilities, preliminary and clear; internship credential

Service Credentials
Administrative; internship
Pupil personnel:
  Child welfare and attendance
  School counseling
  School nurse
  School psychology
  School social work
  School nurse services
Speech language pathology

Graduate Certificate Programs (nondegree)
Artist Diploma
Behavior Analysis
Bilingual (Spanish) Special Education
Bilingual Speech-Language Pathology
Biomedical Quality Systems
Children’s/Adolescent Literature
Cognitive Disabilities
Communication Systems
Community College Teaching
Developing Gifted Potential
Distance Education
Dual Language Academic Literacy
Early Childhood Special Education
Early Childhood Transdisciplinary Education and Mental Health Educational Facility Planning
English Language Development for Academic Literacy
Executive Financial Planner
Instructional Design
Intellectual Property and Regulatory Affairs
Instructional Technology
International Security and Trade
Lesbian, Gay, Bisexual, Transgender, Queer, and Plus Studies
Linked Learning
Mental Health Recovery and Trauma Informed Care
Meeting and Event Management
Nursing Education
Preventive Medicine Residency
Professional Computational Science
Psychiatric Rehabilitation
Public Health
Regulatory Affairs
Rehabilitation Administration
Rehabilitation Counseling
Rehabilitation Technology
Residency Training In Radiation Therapy Physics
Social Work Administration
Supported Employment and Transition Specialist
Taxation
Teaching English as a Second or Foreign Language (TESL/TEFL)
Teaching of Writing
Web and Mobile Applications
Development
Women’s Studies
Workforce Education and Lifelong Learning

Graduate Certificate Programs

The advanced certificate at the post-baccalaureate entry level provides students a program of coursework leading to a specific applied goal. The general educational background of a bachelor’s degree with a major in the appropriate field(s) of study is prerequisite to such a certificate. Courses taken for advanced certificate program may be applied to a master’s degree with the recommendation of the program adviser and approval from the Division of Graduate Affairs. A student wishing to be admitted to an advanced certificate must meet the criteria specified under General Admission Requirements. The student must also meet the professional, personal, scholastic, and other standards prescribed by the appropriate department and the Graduate Council. Advanced certificate students are governed by the same regulations as master’s degree students when accepting courses earned by the same regulations as master’s degree students when accepting courses taken prior to matriculation. Students in an advanced degree program that wish to add an advanced certificate concurrently must be formally admitted no later than halfway through the units required for the advanced certificate. Students are ineligible to pursue two advanced certificates concurrently. Courses applied toward one advanced certificate cannot be used toward the completion of a second advanced certificate.

It is the student’s responsibility to maintain a grade point average of at least a 3.0 in all certificate courses, earn at least a grade of C (or better if specified by the department) on courses required for the certificate. A certificate must be completed within six years and a student must maintain good academic standing. With the recommendation of the program adviser and approval of the Division of Graduate Affairs, a student may include up to six units of 596 and 696 courses toward the fulfillment of the requirements. Courses used toward the fulfillment of a basic certificate cannot be used to fulfill the requirements for an advanced certificate.

Graduate students interested in a basic certificate should first consult with the appropriate department and the Office of Financial Aid and Scholarships regarding course requirements and financial aid implications.