

# 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.

The School of Speech, Language, and Hearing Sciences offers curricula leading to clinical certification and graduate credentials in speech pathology, audiology, and speech, language, and hearing sciences.

The School of Nursing offers the Bachelor of Science degree and the Master of Science degree in Nursing (areas of concentration are advanced practice nursing of adults and the elderly, nursing education, nursing leadership in health care systems, and women's health and midwifery), and offers a curriculum leading to registered nurse licensure, public health nurse credential, health services credential (school nurse services), and nurse educator.

4. **Preprofessional and nondegree curricula:** Programs are offered in allied health, pre dental, 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, the Doctor of audiology (Au.D.), the Doctor of Education in educational leadership (Ed.D.), the Doctor of Physical Therapy (DPT), and Doctor of Philosophy (Ph.D.) in biology (cell and molecular), chemistry, clinical psychology, computational science/statistics, 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  
Computational Science/Statistics  
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  
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	Linguistics
Art	Mathematics
Asian Studies	Music
Biology	Philosophy
Chemistry	Physics
Chicana and Chicano Studies	Political Science
Communication	Psychology
Economics	Rhetoric and Writing Studies
Education	Sociology
English	Spanish
French	Speech, Language, and Hearing Sciences
Geography	Teaching
History	Theatre Arts
Interdisciplinary Studies	Women's Studies
Latin American Studies	
Liberal Arts and Sciences	

**Master of Science**

The Master of Science degree is offered in the following fields:

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|--|------------------------------------|
| Accountancy                            | Geological Sciences                |
| Aerospace Engineering                  | Gerontology                        |
| Applied Mathematics                    | Homeland Security                  |
| Astronomy                              | Hospitality and Tourism Management |
| Bioengineering                         | Information Systems                |
| Bioinformatics and Medical Informatics | Interdisciplinary Studies          |
| Biology                                | Kinesiology                        |
| Business Administration                | Mechanical Engineering             |
| Chemistry                              | Medical Physics                    |
| Child Development                      | Microbiology                       |
| Civil Engineering                      | Nursing                            |
| Computational Science                  | Nutritional Sciences               |
| Computer Science                       | Physics                            |
| Counseling                             | Psychology                         |
| Criminal Justice and Criminology       | Public Health                      |
| Electrical Engineering                 | Regulatory Affairs                 |
| Exercise Physiology                    | Rehabilitation Counseling          |
| Geography                              | Statistics                         |

**Professional Master's Degrees**

- Master of Business Administration
- Master of City Planning
- Master of Engineering
- Master of Music
- Master of Public Administration
- Master of Public Health
- Master of Social Work

**Concurrent Degrees**

Concurrent degrees are offered in the following fields:

- Master of Business Administration and Juris Doctor
- Master of Business Administration and Master of Arts in Latin American Studies
- Master of Public Administration and Master of Arts in Latin American Studies
- Master of Public Health and Master of Arts in Latin American Studies
- Master of Science in Nutritional Science and Master of Science in Exercise Physiology
- Master of Social Work and Juris Doctor
- Master of Social Work and Master of Public Health

**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
- Concentration (Ph.D.):*
- Statistics

**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
  - Learning Design and Technology
  - 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
- Concentration (M.S.):*
- Environmental Health Sciences
- Concentrations (Ph.D.):*
- Epidemiology
  - 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

## Summary of Curricula Offered

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

## Credentials Offered

### **Added Authorizations**

Bilingual, with an emphasis in biliteracy for K-12

Reading and Literacy

### **Teaching Credentials**

Multiple subject; internship

Multiple subject bilingual 2042

*emphasis:* Spanish; 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,  
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

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, and Transgender Studies

Linked Learning

Mental Health Recovery and Trauma

Informed Care

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

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 taken prior to matriculation. Students in an advanced degree program that wish to add the advanced certificate concurrently must be formally admitted no later than halfway through the units required for the 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 seven 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 towards 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.