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 premedical, prelegal, preengineering, and preveterinary fields.

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, the Master of Social Work and Juris Doctor, and the Master of Social Work and Master of Public Health.

Also offered are the Educational Specialist in school psychology, the Professional Doctorate in audiology, the Doctor of Education, the Doctor of Education in educational leadership, the Doctor of Physical Therapy, and the Doctor of Philosophy 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.
## Summary of Curricula Offered

### Types of Degrees Offered by Major

<table>
<thead>
<tr>
<th>Majors</th>
<th>Applied Arts and Sciences</th>
<th>Liberal Arts and Sciences</th>
<th>Graduate Curricula</th>
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# An emphasis within the B.S. in Business Administration
### Types of Degrees Offered by Major (continued)

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<th>Majors</th>
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<th>Liberal Arts and Sciences</th>
<th>Graduate Curricula</th>
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* An emphasis within the B.S. in Business Administration
Emphases and Concentrations

An emphasis or concentration is defined as an aggregate of courses within a degree major designed to give a student specialized knowledge, competence, or skill. Completion of an emphasis or concentration is noted on the student’s transcript and diploma for undergraduate students.

Baccalaureate Emphases

Art (B.A., Liberal Arts and Sciences)
Emphases:
- Art History
- Studio Arts

Art (B.A., Applied Arts and Sciences)
Emphases:
- Applied Design
- Graphic Design
- Interior Architecture
- Multimedia and Photography
- Painting and Printmaking
- Sculpture

Asian Studies (B.A., Liberal Arts and Sciences)
Emphasis:
- Chinese Studies and Language

Biology (B.S., Applied Arts and Sciences)
Emphases:
- Cellular and Molecular Biology
- Ecology
- Evolutionary Biology
- Marine Biology
- Zoology

Chemistry (B.S., Applied Arts and Sciences)
Emphasis:
- Biochemistry

Classics (B.A., Liberal Arts and Sciences)
Emphases:
- Classical Humanities
- Classical Language Classical Languages with Honors

Communication (B.A., Liberal Arts and Sciences)

Economics (B.A., Liberal Arts and Sciences)
Emphases:
- International Economics
- Public Policy

Geography (B.A., Applied Arts and Sciences)
Emphasis:
- General Geography

Geography (B.A., Liberal Arts and Sciences)
Emphases:
- Environment, Sustainability, and Policy
- Geographic Information Science and Technology
- Human Geography and Global Studies

Geology (B.S., Applied Arts and Sciences)
Emphases:
- Geographic Information Science and Technology
- Water, Climate, and Ecosystems

Geological Sciences (B.S., Applied Arts and Sciences)
Emphases:
- General Geology
- Engineering Geology
- Environmental Geosciences
- Geophysics
- Hydrogeology
- Paleontology

German (B.A., Liberal Arts and Sciences)
Emphasis:
- German Studies

Hospitality and Tourism Management (B.S., Applied Arts and Sciences)
Emphases:
- Hotel Operations and Management Meetings and Events Operations and Management
- Restaurant Operations and Management Tribal Gaming Operations and Management

Humanities (B.A., Liberal Arts and Sciences)
Emphasis:
- European Humanities

International Business (B.A., Liberal Arts and Sciences)
Emphases in language:
- Arabic
- Chinese
- English
- French
- German
- Italian
- Japanese
- Korean
- Portuguese
- Russian
- Spanish

Emphases in regional/cultural studies:
- Africa/French
- Asia/Chinese
- Asia/Japanese
- Asia/Korean
- Latin America/Portuguese
- Latin America/Spanish
- Middle East and North Africa/Arabic
- North America/English
- North America/French
- Central Europe/Russian
- Western Europe/French
- Western Europe/German
- Western Europe/Italian
- Western Europe/Portuguese
- Western Europe/Spanish

Journalism (B.A., Liberal Arts and Sciences)
Emphases:
- Advertising
- Media Studies
- Public Relations

Kinesiology (B.S., Applied Arts and Sciences)
Emphases:
- Exercise Science Generalist
- Fitness Specialist
- Prephysical Therapy

Liberal Studies (B.A., Applied Arts and Sciences)
Emphases:
- Education-Generalist
- Elementary Education
- Mathematics
- Science

Mathematics (B.S., Applied Arts and Sciences)
Emphases:
- Applied Mathematics
- Computational Science
- Science

Mechanical Engineering (B.S., Applied Arts and Sciences)
Emphasis:
- Bioengineering

Microbiology (B.S., Applied Arts and Sciences)
Emphasis:
- Clinical Laboratory Science

Psychology (B.A., Liberal Arts and Sciences)
Emphasis:
- Industrial and Organizational Psychology

Public Administration (B.A., Applied Arts and Sciences)
Emphasis:
- City Planning

Recreation Administration (B.S., Applied Arts and Sciences)
Emphases:
- Outdoor Resource Management
- Recreation Systems Management
- Sustainable Tourism Management

Statistics (B.S., Applied Arts and Sciences)
Emphases:
- Actuarial Science
- Data Science

Television, Film and New Media (B.S., Applied Arts and Sciences)
Emphases:
- Critical Studies
- Production

Theatre Arts (B.A., Applied Arts and Sciences)
Emphases:
- Design and Technology
- Design for Television and Film
- Performance
- Youth Theatre

Graduate Concentrations

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

Counseling (M.S.)
Concentrations:
- Marriage and Family Therapy
- Multicultural Community Counseling
- Community-Based Block
- School Counseling
- School Psychology

Summary of Curricula Offered
Summary of Curricula Offered

**Education**
Concentrations (M.A.):
- Counseling
- Dual Language and English Learner Education
- Educational Leadership
- Elementary Curriculum and Instruction
- Mathematics Education
- Reading Education
- Secondary Curriculum and Instruction
- Special Education

**Geography**
Concentrations (M.S.):
- 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.)**
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
- Speech-Language Pathology

**Statistics (M.S.)**
Concentrations:
- 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
- Early Childhood Special Education
- 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

**Minors for the Bachelor’s Degree**
- Accounting
- Air Force Leadership Studies
- African Studies
- Africana Studies
- American Indian Studies
- Anthropology
- Art
- Art History
- Asian Studies
- Astronomy
- Biology
- Business Administration
- Chemistry
- Chicana and Chicano Studies
- Child Development
- Children’s Literature
- Chinese
- Chinese Studies
- Classics
- Communication
- Comparative Literature
- Computer Science
- Counseling and Social Change

Creative Editing and Publishing
Creative Writing
Cultural Proficiency
Dance
Digital and Social Media Studies
Economics
Energy Studies
Engineering
English
Entrepreneurship
European Studies
Finance
French
Geography
Geological Sciences
German
Gerontology
History
Honors in Interdisciplinary Studies
Humanities
Information Systems
International Security and Conflict Resolution
International Studies, PSFA
Islamic and Arabic Studies
Italian
Japanese
Japan Studies
Judaic Studies
Latin American Studies
Leadership Development
Learning Design and Technology
Lesbian, Gay, Bisexual, Transgender, Queer, and Plus (LGBTQ+) Studies
Linguistics
Management
Marketing
Mathematics
Military Science
Music
Naval Science
Oceanography
Philosophy
Physics
Political Science
Portuguese and Brazilian Studies
PSFA International Studies
Psychology
Public Administration
Public Health
Real Estate
Recreation
Religious Studies
Rhetoric and Writing Studies
Russian
Social Work
Sociology
Somatic Studies
Spanish
Statistics
Sustainability
Teaching English as a Second or Foreign Language (TESL/TEFL)
Television, Film and New Media
Text Analytics
Theatre Arts
United States-Mexican Border Studies
Women’s Studies
Summary of Curricula Offered

**Special Curricula**

**Preprofessional Curricula**
- Predental
- Premedical
- Preveterinary

**Military Curricula**
- Aerospace Studies (AFROTC)
- Military Science (ROTC)
- Naval Science (NROTC)

**Certificate Programs (nondegree)**
- Applied Gerontology
- Artist Diploma
- Behavior Analysis
- Bilingual (Spanish) Special Education
- Bilingual Speech-Language Pathology
- Biomedical Quality Systems
- Biotechnology
- Brazilian Studies
- Business Administration (SDSU Imperial Valley Only)
- Children's/Adolescent Literature
- Children's Literature
- Cognitive Disabilities
- Communication
- Communication Systems
- Community College Teaching
- Computational Linguistics
- Creative Editing and Publishing
- Creative Writing
- Developing Gifted Potential
- Distance Education
- Dual Language for Academic Literacy
- Early Care and Education
- Early Childhood Transdisciplinary Education and Mental Health Educational Facility Planning
- English Language Development for Academic Literacy
- Entertainment Management
- Environmental Studies
- Executive Financial Planner
- Family Life Education
- Geographic Information Science
- Global Religious Literacy
- Health Communication
- Indian Religions, Cultures, and Traditions
- Industrial/Organizational Psychology
- Institutional Research, Planning, and Assessment
- Instructional Design
- Instructional Technology
- Intellectual Property and Regulatory Affairs
- International Media
- International Security and Trade
- Korean Studies
- Lesbian, Gay, Bisexual, Transgender, Queer, and Plus (LGBTQ+) Studies
- Linked Learning
- Meeting and Event Management
- Mental Health Recovery and Trauma Informed Care
- Nursing Education
- Performance
- Personal Financial Planning
- Preventive Medicine Residency
- Professional Computational Science
- Professional Writing
- Psychiatric Rehabilitation
- Public Administration (SDSU Imperial Valley Only)
- Public Health
- Public Law
- Regulatory Affairs
- Rehabilitation Administration
- Rehabilitation Counseling
- Rehabilitation Technology
- Residency Training in Radiation Therapy Physics
- Single Subject Mathematics
- Social Work Administration
- Spanish for the Professions
- Spanish Translation and Interpretation Studies
- Supported Employment and Transition Specialist
- Taxation
- Teaching English as a Second or Foreign Language (TESL/TEFL)
- Teaching of Writing Text Analytics
- United States-Mexico Border Studies
- Web and Mobile Applications Development
- Women's Studies
- Workforce Education and Lifelong Learning

The following non-academic credit programs are available through College of Extended Studies only.
- Business of Craft Beer
- Business of Wine
- Civil Sitework Construction Online
- Construction Estimating Online
- Construction Practices Online
- Construction Project Management Online
- Construction Supervision Online
- Contract Management
- Grant Writing
- Health Care (Clinical Medical Assistant, EKG Technician, Pharmacy Technician Training, and Test Preparation)
- Human Resource Management
- Lean Enterprise
- Lean Six Sigma
- Management and Leadership Marketing
- Meeting and Event Planning
- Nutrition for Optimal Health and Wellness
- Occupational Health and Safety Management
- Project Management
- Teaching English as a Second Language