PART FIVE

Summary of Curricula
Major and Credential Codes
Nondegree Curricula
Course Information
Course Abbreviations
Courses and Curricula by Department
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 College of Business Administration 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, community health nursing, nursing education, and nursing leadership in health care systems) 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, 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 Theatre Arts, the Master of Music, the Master of Public Administration, the Master of Public Health, and the Master of Social Work, Master of Social Work and Juris Doctor.

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, and the Doctor of Philosophy in bioengineering, biology (cell and molecular), chemistry, clinical psychology, computational science, ecology, education, electrical and computer engineering, evolutionary biology, geography, geophysics, language and communicative disorders, mathematics and science education, mechanical and aerospace engineering, public health, and structural engineering.

Degrees and Certificates
San Diego State University offers the following degrees and certificates:

   Bachelor of Arts
   Bachelor of Fine Arts (Dance)
   Bachelor of Science
   Bachelor of Music
   Master of Arts
   Master of Education
   Master of Fine Arts (Art, Creative Writing, Theatre Arts)
   Master of Music
   Master of Public Administration
   Master of Public Health
   Master of Social Work
   Master of Social Work and Juris Doctor
   Master of Social Work and Master of Public Health
   Educational Specialist in School Psychology
   Doctor of Audiology
   Doctor of Education
   Doctor of Philosophy
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* An emphasis within the B.S. in Business Administration.
Curricula Summary

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 MAJORS
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 Design
- Multimedia
- 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:
- Bioengineering
- Cellular and Molecular Biology
- Ecology
- Evolution and Systematics
- Marine Biology
- Zoology

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

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

Communication (B.A., Liberal Arts and Sciences)
Emphasis:
- Telecommunications and Film

Economics (B.A., Liberal Arts and Sciences)
Emphases:
- International Economics
- Preprofessional Studies

Environmental Sciences (B.S., Applied Arts and Sciences)
Emphasis:
- Watershed Science

Geography (B.A., Liberal Arts and Sciences)
Emphases:
- Methods of Geographical Analysis
- Natural Resource and Environmental Physical Geography
- Urban and Regional Analysis

Geology (B.S., Applied Arts and Sciences)
Emphasis:
- Geographic Information Science

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

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

Health Science (B.S., Applied Arts and Sciences)
Emphasis:
- Public Health

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

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

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

Emphasis in regional/cultural studies:
- Africa-Middle East
- Asia-Pacific
- Latin America
- North America
- Russia and Central Europe
- Western Europe

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

Kinesiology (B.S., Applied Arts and Sciences)
Emphases:
- Athletic Training
- Fitness Specialist
- Physical Education
- Prephysical Therapy

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

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

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

Social Science (B.A., Liberal Arts and Sciences)
Emphases:
- Environmental Studies
- Islamic and Arabic Studies

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

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 for Theatre
- Design for Television and Film
- Performance
- Youth Theatre

GRADUATE MAJORS
Applied Mathematics (M.S.)
Concentrations:
- Dynamical Systems
- Mathematical Theory of Communication Systems

Art (M.A.)
Concentrations:
- Art History
- Studio Arts

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

Civil Engineering (M.S.)
Concentration:
- Environmental Engineering

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

Counseling (M.S.)
Concentrations:
- Marriage and Family Therapy
- School Counseling

Education
Concentrations (M.A.):
- Counseling
- Educational Leadership
- Educational Research
- Educational Technology
- Elementary Curriculum and Instruction
- Mathematics Education

Policy Studies in Language and Cross-cultural 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

Psychology (M.S.)
Concentrations:
- Applied Psychology
- Clinical Psychology (included within the Ph.D. program; not available separately)

Public Administration (M.PA)
Concentrations:
- City Planning
- Criminal Justice Administration

Public Health
Concentrations (M.PH):
- Biometry
- Environmental Health
- Epidemiology
- Health Management and Policy
- Health Promotion and Behavior Science

Concentration (M.S.):
- Toxicology
Curricula Summary

Speech, Language, and Hearing Sciences (M.A.)
Concentrations:
- Speech-Language Pathology
- Communicative Sciences

Statistics (M.S.)
Concentration:
- Biostatistics

Theatre Arts (M.F.A.)
Concentrations:
- Acting
- Design and Technical Theatre
- Musical Theatre

Credentials Offered

Teaching Credentials
Multiple subject; internship
Multiple subject cross-cultural, language, and academic development (CLAD) emphasis
Multiple subject bilingual cross-cultural language and academic development (BCLAD) emphasis: Spanish; internship
Single subject; internship
Single subject cross-cultural, language, and academic development (CLAD) emphasis
Single subject bilingual cross-cultural language and academic development (BCLAD) emphasis: Spanish

Specialist Credentials
BCLAD
Education Specialist for the deaf and hard of hearing, levels I and II
Reading/Language Arts
Special Education:
- Early Childhood Special Education, levels I and II; internship credential
- Mild/Moderate Disabilities, levels I and II; internship credential
- Moderate/Severe Disabilities, levels I and II; internship credential

Service Credentials
Administrative; internship
Child Welfare and Attendance
Pupil Personnel:
- School Counseling
- School Nurse
- School Psychology; internship
- School Social Work
- Speech Language Pathology

Minors for the Bachelor's Degree
Accounting
Advertising
Aerospace Studies
African Studies
African Studies - American Indian Studies
Anthropology
Art
Art History
Asian Studies
Astronomy
Biology
Business Administration
Chemistry
Chicana and Chicano Studies
Child Development
Chinese
Chinese Studies
Classics
Communication
Comparative Literature
Computer Science
Counseling and Social Change
Dance
Economics

Educational Technology
Energy Studies
Engineering
English
Environment and Society
European Studies
Finance
French
Geography
Geological Sciences
German
Gerontology
Health Science
History
Honors in Interdisciplinary Studies
Humanities
Information Systems
International Security and Conflict Resolution
International Studies, PSFA
Italian
Islamic and Arabic Studies
Japanese
Judaic Studies
Latin American Studies
Leadership Development
Lesbian, Gay, Bisexual, and Transgender Studies
Linguistics
Management
Marketing
Mathematics
Military Science
Music
Naval Science
Oceanography
Philosophy
Physics
Political Science
Portuguese
PSFA International Studies
Psychology
Public Administration
Public Relations
Real Estate
Religion
Religious Studies
Rhetoric and Writing Studies
Russian
Small Business Management
(Imperial Valley Campus only)
Social Work
Sociology
Spanish
Statistics
Television, Film and New Media
Theatre Arts
United States-Mexico Border Studies
Women's Studies

Special Curricula

Preprofessional Curricula
- Predental
- Premedical
- Preveterinary

Military Curricula
- Aerospace Studies (AFROTC)
- Military Science (ROTC)
- Naval Science (NRROT)

Certificate Programs (nondegree)
- Academic Literacy Development for English Language Learners
- Accounting
- African Studies
- Algebra Specialist
- Anthropology
- Art Diploma
- Behavior Analysis
- Bilingual Speech-Language Pathology
- Biomedical Quality Systems
- Biotechnology
- Business Administration
- Business Administration
- Children's/Adolescent Literature
- Cognitive Disabilities
- Communications Systems
- Community College Teaching
- Computational Linguistics
- Developing Gifted Potential
- Distance Education
- Dual Language Bilingual
- Early Childhood-Socio-Emotional and Behavior Regulation Intervention Specialist
- Early Childhood Special Education Authorization
- Environmental Science
- Executive Financial Planner
- Family Life Education
- Geographic Information Science
- Industrial/Organizational Psychology
- Instructional Design
- Instructional Technology
- Lesbian, Gay, Bisexual, and Transgender Mathematics Specialist
- Mexico (BCLAD)
- Museum Studies
- Nursing Education
- Personal Financial Planning
- Preventive Medicine Residency
- Primary Grade Writing Instruction
- Professional Computational Science
- Professional Writing
- Psychiatric Rehabilitation
- Public Administration
- (Imperial Valley Campus only)
- Reading
- Regulatory Affairs
- Rehabilitation Administration
- Rehabilitation Counseling
- Rehabilitation Technology
- Single Subject Mathematics
- Social Work Administration
- Supported Employment and Transition Specialist
- Teacher Induction: Fifth Year
- Teaching English as a Second or Foreign Language (TESL/TEFL)
- Teaching of Writing
- Transborder Public Administration and Governance
- Translation and Interpretation Studies (Spanish)
- United States-Mexico Border Studies
- Web and Mobile Applications Development
- Women's Studies
- Workforce Education and Lifelong Learning

The following non-credit programs are available through Extension only:
- Advanced Government Contract Management
- Advanced Government Contract Management
- Small Business of Wine
- Construction Estimating Online
- Construction Practices
- Construction Supervisory Online
- Digital and Social Media
- Financial Management
- Government Contract Management
- Grant Writing
- Green Building Construction
- Green Energy Management
- Health Care
- Human Resource Management
- Lean Enterprises
- Lean Six Sigma
- Marketing and Media Specialist
- Medical Office Procedures
- Meeting and Events Planning
- Nutrition for Optimal Health
- Occupational Health and Safety Management
- Project Management
- Residential and Commercial Sustainable Practices
- Teaching English as a Second Language
- Teen Summer Academy
- Water Conservation
- Web and Mobile Applications, Advanced

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## Major and Credential Codes

**MAJOR CODE KEY:**
- **U** = Undergraduate
- **G** = Graduate
- **+** = Emphasis within another master's degree
- **=** = Concentration within another master's or Ph.D. degree
- **#** = Specialization within another bachelor's degree
- **^** = Specialization within another master's degree

### MAJOR | MAJOR CODE
--- | ---
Accountancy | 05021 U
+ Accleralogy | 05021 U
African Studies | 22111 U
American Indian Studies | 22121 U
Anthropology | 22021 U & G
Applied Mathematics | 17031 G
Art | 10021 U & G
+ Art History | 10031 U & G
+ Graphic Design | 10091 U
+ Interior Design | 02031 U
+ Multimedia | 06991 U
Art - MFA | 10022 G
Asian Studies | 03011 U & G
+ Chinese Studies and Language | 03011 U & G
Astronomy | 19111 U & G
Audiology | 12202 G
Biornformatics and Medical Extronics | 07994 G
Biomedical Quality Systems | 09994 G
Business Administration | 05011 U
Business Administration and Juris Doctor | 05995 G
(concurrent program)
Business Administration and Latin American Studies | 05995 G
(concurrent program)
+ Chemical Physics | 19061 U
Chemistry | 19051 U & G
+ Biochemistry | 19051 U
Chicana and Chicano Studies | 22131 U & G
Child Development | 08231 U & G
City Planning | 02061 G
Classics | 15041 U
Clinical Psychology | 20031 G
Communication | 15061 U & G
^ Communication Studies | 06011 U
^ Telecommunications and Film | 06033 U
Comparative Literature | 15031 U
Computational Science | 07992 G
Computer Science | 07011 U & G
Counseling | 08261 G
Creative Writing | 15071 U
Criminal Justice | 21051 U & G
^ Criminal Justice Administration | 21051 G
Criminal Justice and Criminology | 22091 G
Dance | 10081 U
Dance - BFA | 10082 U
^ Ecology | 04201 G
Economics | 22041 U & G
+ International Economics | 22042 U
Education (Ed.D.) | 08291 G
School Psychology (Ed.S.) | 20013 G
Education (MAT) | 08292 G
Education | 08111 G
+ Counseling | 08261 G
+ Educational Leadership | 08271 G
^ EDL, Pre-K 12 School Leadership | 08372 G
+ EDL Community CollegePost-secondary Leadership | 08273 G
+ Educational Research | 08241 G
+ Educational Technology | 08992 G
+ Elementary Curriculum and Instruction | 08021 G
+ Mathematics Education | 17012 G
^ Policy Studies in Language and Cross-Cultural Education | 08994 G
+ Reading Education | 08301 G
+ Secondary Curriculum and Instruction | 08031 G
+ Special Education | 08081 G
+ Engineering | 09134 G
Aerospace Engineering | 09021 U & G
Bioengineering | 09051 G
Civil Engineering | 09081 U & G
Computer Engineering | 09094 U
Construction Engineering | 09254 U
Electrical and Computer Engineering | 09095 G
Electro-Diagnostic Engineering | 09096 U & G
Environmental Engineering | 09221 G
Mechanical and Aerospace Engineering | 19020 G
Mechanical Engineering | 09101 U & G
Structural Engineering | 09084 G
English | 15011 U & G
^ Entrepreneurship | 05997 G
Environmental Sciences | 49011 U
European Studies | 03101 U
Evolutionary Biology | 04016 G
Exercise Physiology | 08355 G
Exercise Physiology and Nutritional Science | 08356 G
^ Finance | 05041 U & G
+ Financial Services | 05043 U
+ Financial and Tax Planning | 05043 G
Foods and Nutrition | 13061 U
French | 11021 U & G
Geography | 22061 U & G
Geological Sciences | 19141 U & G
Geophysics | 19160 G
German | 11031 U
Gerontology | 21043 U & G
Health Communication | 06013 U
Health Science | 12011 U
Homeland Security | 22102 G
History | 22051 U & G
Hospitality and Tourism Management | 05081 U
Humanities | 15991 U
^ Human Resource Management | 05151 G
+ Information Systems | 07021 U & G
Interdisciplinary Studies | 49993 U & G
International Business | 05131 U & G
International Security and Conflict Resolution | 22103 U
Japanese | 11081 U
Journalism | 06021 U
+ Advertising | 06041 U
+ Mass Communication and Media Studies | 06010 G
+ Media Studies | 15060 U
+ Public Relations | 05992 U
Juris Doctor and Social Work | 21045 G
Kinesiology | 08351 U & G

### MAJOR CODE

**MAJOR MAJOR CODE MAJOR CODE MAJOR CODE**

- **MAJOR**
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**MAJOR CODE KEY:**
- **+** = Concentration within another master's degree
- **=** = Emphasis within another bachelor's or Ph.D. degree
- **#** = Specialization within another bachelor's degree
- **^** = Specialization within another master's degree

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<thead>
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<tr>
<td>U</td>
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*See following page for NUMERICAL LISTING OF MAJOR CODES and CREDENTIAL CODES.*

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### MAJOR CODE MAJOR
00000 U Undeclared
02231 U + Interior Design
02601 G + City Planning
03011 U & G Asian Studies
03011 U + Chinese Studies and Language
03071 U Russian and East European Studies
03081 U & G Latin American Studies
03101 U European Studies
04011 U & G Biology
04016 G Evolutionary Biology
04071 G + Systemsatic Evolutionary Biology (Zoology)
04101 G + Physiology
04111 U & G Microbiology
04161 G Molecular Biology
04201 G Ecology
05011 U & G Business Administration
05016 G Life Sciences
05021 G Accountancy
05021 U + Accounting
05022 G Taxation
05041 U & G + Finance
05043 U + Financial Services
05043 G Financial and Tax Planning
05061 U + Management
05064 U + Operations Management
05081 U Hospitality and Tourism Management
05091 U & G + Marketing
05111 U & G + Real Estate
05131 U & G International Business
05151 G Human Resource Management
05992 U + Public Relations
05995 G Business Administration and Juris Doctor (concurrent program)
05997 G Entrepreneurship
06010 G + Mass Communication and Media Studies
06011 G Communication Studies
06013 U Health Communication
06021 G Journalism
06031 U & G Television, Film and New Media Production
06033 U + Telecommunications and Film
06041 U + Advertising
06991 U + Multimedia
07011 U & G Computer Science
07021 U & G + Information Systems
07992 U Computational Science
07994 G Bioinformatics and Medical Informatics
08011 G Education
08021 G + Elementary Curriculum & Instruction
08031 G + Secondary Curriculum & Instruction
08081 G Special Education
08231 U & G Child Development
08241 G + Educational Research
08261 G Counseling
08271 G + Educational Leadership
08272 G + EDL, Pre-K-12 School Leadership
08273 G + EDL, Community College/Postsecondary Leadership
08291 G Education (Ed.D.)
08292 G Education (MAT)
08301 G Reading Education
08351 U & G Kinesiology
08355 G Exercise Physiology
08356 G Nutritional Science and Exercise Physiology
08395 U Vocational Education
08992 G + Educational Technology
08994 G Policy Studies in Language and Cross-Cultural Education

### MAJOR CODE MAJOR
08997 G Mathematics and Science Education
09021 U & G Aerospace Engineering
09051 G Biomedical Engineering
09081 U & G Civil Engineering
09084 G Structural Engineering
09091 U & G Electrical Engineering
09094 G Computer Engineering
09095 G Electrical and Computer Engineering
09101 U & G Mechanical Engineering
09134 G + Environmental Engineering
09221 U & G Coronation Engineering
09994 G Biomedical Quality Systems
10021 U & G + Art - MFA
10022 G Art History
10041 U & G + Music
10051 G Music
10052 U Music
10071 U & G Theatre Arts
10072 G Theatre Arts - MFA
10081 U Dance
10082 U Dance - BFA
10091 U + Graphic Design
11021 U & G French
11031 U German
11051 U & G Spanish
11061 U Russian
11081 U Japanese
12011 U Health Science
12031 U & G Nursing
12032 U Nursing
12141 G Public Health
12143 G + Health Behavior
12201 U & G + Speech, Language, and Hearing Sciences
12202 G Audiology
12221 G Rehabilitation Counseling
12251 G Radiological Health Physics
12991 G Social Work and Public Health
13061 U Foods and Nutrition
13061 G + Health (concurrent program)
15011 U & G English
15013 G Rhettor and Writing Studies
15031 U Comparative Literature
15041 U Classics
15051 U & G Linguistics
15060 U + Media Studies
15061 U Communication
15071 G Creative Writing
15091 U & G Philosophy
15101 U Religious Studies
15102 U Modern Jewish Studies
15191 U Humanities
17011 U & G Mathematics-B.A. degree
17012 G + Mathematics Education K-8
17021 U & G + Statistics
17031 U G Applied Mathematics
17031 U Mathematics-B.S. degree
19011 U Physical Science
19020 G Mechanical and Aerospace Engineering
19021 G Physics
19051 U & G Chemistry
19051 U Biochemistry
19081 U Chemical Physics
19111 U & G Astronomy
19141 U Geologic Sciences
19160 G Geophysics
20011 U & G Psychology

### CODES FOR CREDENTIALS
**CREDENTIAL CODE**
00100 Single Subject Instruction
00200 Multiple Subject Instruction
00220 Bilingual Authorization
00221 Multiple Subject
00223 Single Subject
00440 Bilingual Specialist
00455 Special Education: Early Childhood
00462 Special Education: Multiple Exceptional Disabilities
00463 Special Education: Moderate/Moderate Disabilities
00464 Special Education: Moderate/Severe Disabilities
00469 Special Education: Physical and Health Impairments
00472 Administrative Services (Premiminary)
00474 Administrative Services (Professional Clear)
00502 School Nurse Services
00600 Pupil Personnel Services
00800 School Counseling
00801 Child Welfare and Attendance
00802 School Social Work
00803 School Psychology
00804 Speech Language Pathology
00900 Language, Speech, and Hearing
00903 Audiology
00904 Asian Studies
00910 Language, Speech, and Hearing
00911 adding Special Class Authorization
00912
Nondegree Curricula

Preprofessional Programs

Entrance into professional schools is becoming increasingly competitive; therefore, it is imperative that students begin planning their curriculum at the earliest possible time in conjunction with the appropriate academic adviser and your preprofessional adviser.

Students who hold undergraduate degrees who wish to take courses for professional schools may do so through Open University in the College of Extended Studies.

Preprofessional Health Advising Office

The Preprofessional Health Advising Office is responsible for advising premedical, predental, preveterinary, prepharmacy, prephysician assistant, and other allied health students in their preparation for and application to the professional schools of their choice. This office works in conjunction with the candidate's major department to establish a degree program coordinated with the preprofessional requirements of the professional schools. It is the communication link between the student and the profession, keeping the student apprised of changes in the requirements and procedures for acceptance. The preprofessional health advising office provides the university-sanctioned SDSU committee letter. To use the services of the Preprofessional Health Advising Office, students must first attend a one hour orientation given several times throughout the semester. Students may sign up for orientation, and to open a file, at the PPHA office.

Prelegal Curriculum

The prelegal program is pursued in conjunction with a degree program. There is no specific prelaw program leading to a bachelor's degree. Students interested in the legal profession should consult with the university prelaw adviser regarding the entrance requirements of the specific law school they hope to attend.

The following curriculum is designed to meet the requirements of standard American schools of law for a broad and liberal education, while at the same time providing desirable flexibility in the individual programs. There are two patterns of concentration which will usually be indicated for the prelegal student, either of which may be selected, in consultation with the adviser, to fit best the interests of the student. These are the major-minor pattern and the liberal studies major pattern. Subject to individual variation, the fields of economics, history, and political science should receive first consideration when choosing the pattern of concentration as being the most effective background for later professional study in law.

The following courses of study are recommended. Lower division: Accounting 201 and 202, Economics 101 and 102, Political Science 101 and 102, and a year course in history. Upper division: In the junior and senior years students will plan their course with the counsel of their adviser in terms of the field of law in which they plan to work, but keeping in mind the entrance requirements and examinations for admission to schools of law. The following list should receive prime consideration by all prelegal students in the selection of courses, though it is to be thought of as flexible in accordance with student needs. Economics 338; History 545; Political Science 301A-301B, 346, 347A-347B. Additional: Economics 380, History 536, Political Science 348.

In addition to the courses taken in the fields of concentration, upper division electives in English, philosophy, psychology, sociology, and speech communication are recommended. A mastery of English is essential.

Students interested in pursuing a legal career are counseled by the university prelaw adviser. Through this office, prelegal students receive information and advice concerning law school application and admission procedures. Guidance in undergraduate preparation for law study is also available. The university prelaw adviser can be contacted through the Department of Political Science.

Premedical Curriculum

The premedical program is pursued in conjunction with a degree program. Students ordinarily elect to concentrate in biology, chemistry, microbiology, or psychology with a major in one area and selected coursework in the others. Other departmental majors are permissible; however, premedical students should meet each semester with their major departmental academic adviser to obtain approval for their program for the coming semester. In addition, premedical students should confer with the premedical adviser at least once each semester to discuss other preparation for dental school.

College preparation. High school students planning to enter dentistry should include in their high school program the following subjects: elementary algebra, geometry, intermediate algebra, chemistry, physics, two or three years of French, German or Spanish, and four years of English.

Admission. Premedical students must realize that the pool of dental applicants has recently increased and the competition for admission to schools of dentistry, particularly at University of California, Los Angeles and University of California, San Francisco, is great.

Admissions tests given by the American Dental Association should be taken not later than fall term one year before admission. Since the test is now given only in computer format, candidates should check the web for current information on where to take the test.

San Diego State University offers the opportunity to obtain a committee letter for students applying to dental schools. In many instances, a dental school will state in its application that, if a student's undergraduate or post-baccalaureate school offers a committee letter, a copy of that letter is required as part of the application process. In order to obtain a committee letter, you must open a file with the Preprofessional Health Advising (PPHA) Office and complete all the steps of the committee procedure, which starts a year and a half before applying. Therefore, it is imperative that you register with the PPHA office as soon as you begin classes at SDSU. The official committee letter, available only from the PPHA office, is SDSU's only formal endorsement of your candidacy. Most schools also require three letters of evaluation, at least one from a dental professional and two of which should be from science professors from whom you have taken courses. Evaluation request forms are available in the preprofessional health advising office. Applicants may request electronic uploads of the committee letter to ADSAS (The dental school application service). A publication: ADEA Official Guide to Dental Schools is available at the SDSU Bookstore or from the American Association of Dental Schools.

All premedical students should establish a personal file in the Preprofessional Health Advising (PPHA) Office, GMCS 323. The office can be reached at 619-594-6638 or online at http://www.sci.sdsu.edu/preprof/.

Preprofessional Programs

The preprofessional program is pursued in conjunction with a degree program. Students ordinarily elect to concentrate in biology, chemistry, microbiology, or psychology with a major in one area and selected coursework in the others. Other departmental majors are permissible; however, premedical students should meet each semester with their major departmental academic adviser to obtain approval for their program for the coming semester. In addition, premedical students should confer with the premedical adviser at least once each semester to discuss other preparation for dental school.

College preparation. High school students planning to enter medicine should include in their high school program the following subjects: elementary algebra, geometry, intermediate algebra, chemistry, physics, two or three years of French, German or Spanish, and four years of English.
Admission. Most medical schools give preference to students with baccalaureate degrees in academic subjects; premedicine is not an academic major. Any major is acceptable to medical schools, and recent research has demonstrated that there is no bias against the non-science major in the selection process. Nor is there any significant difference between the science and the non-science major in medical school performance or in eventual selection of residency. The specific requirements for various majors are found in this catalog under department and program headings.

Competition for admission to California medical schools remains high. Selection for admission is based on many factors beyond the satisfactory completion of minimum requirements including undergraduate grade point average, MCAT scores, and letters of evaluation. Courses taken to satisfy the science requirements must be taken on a graded basis. The credit/no credit option should be used only sparingly in nonscience courses.

Nearly all allopathic and osteopathic medical schools also require applicants to take the MCAT, which is now available only by computer. Applicants are urged to take the test in the spring of the calendar year preceding the year of admission to medical school and not later than the fall term one year before anticipated admission.

San Diego State University offers the opportunity to obtain a committee letter for students applying to medical schools. In many instances, a health professional school will state in its secondary application that, if a student's undergraduate or post-baccalaureate school offers a committee letter, a copy of that letter is required as part of the application process. In order to obtain a committee letter, you must open a file with the Preprofessional Health Advising (PPHA) Office and complete all the steps of the committee procedure, which starts a year-and-a-half before applying. Therefore, it is imperative that you register with the PPHA office as soon as you begin classes at SDSU. The official committee letter, available only from the PPHA office, is SDSU's only formal endorsement of your candidacy. Two or three additional letters from veterinarians and science faculty are also generally required and used in the selection process. The importance of these letters cannot be overemphasized. It is strongly recommended that premedical students secure letters from instructors immediately upon finishing courses, and that students see their adviser regularly so that the adviser can write knowledgeable recommendations when needed. Evaluation forms are available in the preprofessional health advising office.

Osteopathic medical schools require basically the same minimum undergraduate program as allopathic schools. Most schools also request letters of evaluation from practicing osteopathic physicians.

All premedical students should establish a file in the Preprofessional Health Advising (PPHA) Office, GMCS 323. The office can be reached at 619-594-6638 or online at http://www.sci.sdsu.edu/preprof/.

Preveterinary Curriculum

The preveterinary program is pursued in conjunction with a degree program. Students ordinarily elect to major in biology. Other departmental majors are permissible, however. Preveterinary students should meet each semester with their major departmental academic adviser to obtain approval for their program for the coming semester. In addition, preveterinary students should confer with the preveterinary adviser at least once each semester to discuss other preparation for veterinary medicine school.

College preparation. High school students planning to enter veterinary medicine should include in their high school program the following subjects: elementary algebra, geometry, intermediate algebra, chemistry, physics and four years of English.

Admission. Competition for veterinary school admission continues to be great, with a 4 to 1 ratio of applicants to accepted students at University of California, Davis. All preveterinary students should consider applying to one or more out-of-state schools in addition to UC Davis, as most U.S. schools now accept nonresidents. San Diego State University offers the opportunity to obtain a committee letter for students applying to health professional schools. In many instances, a health professional school will state in its secondary application that, if a student's undergraduate or post-baccalaureate school offers a committee letter, a copy of that letter is required as part of the application process. In order to obtain a committee letter, you must open a file with the Preprofessional Health Advising (PPHA) Office and complete all the steps of the committee procedure, which starts a year-and-a-half before applying. Therefore, it is imperative that you register with the PPHA office as soon as you begin classes at SDSU. The official committee letter, available only from the PPHA office, is SDSU's only formal endorsement of your candidacy. Two or three additional letters from veterinarians and science faculty are also generally required and used in the selection process. The importance of these letters cannot be overemphasized. A publication, Veterinary Medical School Admission Requirements in the United States and Canada is available in the preprofessional health advising office and in the SDSU Bookstore.

All preveterinary students should establish a file in the Preprofessional Health Advising (PPHA) Office, GMCS 323. The office can be reached at 619-594-6638 or online at http://www.sci.sdsu.edu/preprof/.

Allied Health Professions

The allied health professions served by the Preprofessional Health Advising (PPHA) Office include chiropractic medicine, optometry, pharmacy, physician assistant, naturopathic, and podiatric medicine. San Diego State University does not offer specific degree programs in these fields. Prephysical therapy and preoccupational therapy advising are located in the School of Exercise and Nutritional Sciences, ENS 331. The advising office can be reached at 619-594-5161 (Patricia Patterson).

Prechiropractic Medicine, Preoptometry, Prepharmacy, Prephysician Assistant, Prenaturopathic, and Prepodiatric Medicine. Students interested in these fields usually major in biology since this curriculum is most appropriate. Other majors, such as chemistry, may be used; however, students must complete the required courses regardless of which major is chosen. In general, all schools require the same courses in biology, chemistry, physics, and mathematics; students should be in contact with the schools of their choice to determine any specific requirements.

Academic Requirements for Entrance to a Professional Degree Program in One of the Above Allied Health Professions. Students should see their academic adviser and the preprofessional adviser to ensure that all entrance requirements are met. Students interested in the above allied health professions (except for prephysical therapy or preoccupational therapy) are encouraged to open a file early in their academic careers at the Preprofessional Health Advising (PPHA) Office.

Preoccupational Therapy. Students interested in a career in occupational therapy may major in a variety of areas including psychology, kinesiology, art, or biology. There are several schools in California that offer B.S. or M.S. degrees in occupational therapy. Students must complete certain courses required by each school; in general, these include courses in the humanities, natural sciences and mathematics, and social sciences. For further information, contact the American Occupational Therapy Association at http://www.apta.org.

Prephysical Therapy. The prephysical therapy curriculum is pursued in conjunction with an established major. Students ordinarily select a major in kinesiology since physical therapy requires a strong emphasis on physical education and complete selected coursework in other departments. Another major often selected is biology. Prephysical therapy students should confer with their departmental adviser prior to initial registration, and at least
Certificate Programs

Basic Certificate

The purpose of the basic certificate program is to provide individuals whose educational objectives do not require a degree program the opportunity to participate in university academic activities designed to meet specific educational needs.

Ordinarily, credit certificate programs are available to matriculated and nonmatriculated students. Students seeking a certificate must apply for admission according to the guidelines set forth by the individual certificate programs.

Coursework for a basic certificate shall not duplicate in content and level the student’s prior educational experience. Unless otherwise stated, a student may apply no more than six units of coursework from a basic certificate program toward a major or minor with the approval of the department.

For a complete listing of certificate programs offered by San Diego State University, refer to the Curricula Summary section of this catalog.

Advanced Certificate – Post-Baccalaureate

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 approval of the graduate adviser.

For a listing of admission standards and specific certificate requirements, refer to the Graduate Bulletin.
Absence from Class

Instructor Initiated Drop Policy

Students who do not attend the first class session and the beginning of the second class session of a course may be dropped from that course by the instructor within the first seven class days of the semester. Students who do not meet prerequisite requirements can also be dropped within the first seven class days of the semester. Any student dropped by the instructor during this period will be notified of the action by e-mail. It is the student’s responsibility to keep a current e-mail address on file through the SDSU WebPortal at http:// www.sdsu.edu/portal. To reenroll, the student must receive an add code from the instructor and reenroll in the course by 6 p.m. on the 12th class day of the semester.

NOT ALL INSTRUCTORS WILL DROP STUDENTS WHO MISS THE FIRST CLASS SESSION AND THE BEGINNING OF THE SECOND CLASS SESSION. Students are responsible for all courses on their schedules. Students should check their online schedules regularly and take necessary action to add or drop during the schedule adjustment period.

Religious Observances

By the end of the second week of classes, students should notify the instructors of affected courses of planned absences for religious observances. Instructors shall reasonably accommodate students who notify them in advance of planned absences for religious observances.

Schedule Adjustment Policy

The schedule adjustment period allows you to drop a course, add a course, withdraw from the university, and change the grading basis of a course. The deadline to DROP a class is at 11:59 p.m. on the 10th day of the term. The deadline to ADD a class, change grading basis or withdraw from the university is at 11:59 p.m. on the 12th day of the term. You are not allowed to make any schedule adjustments after these deadlines and are responsible for knowing the current semester dates for these deadlines, which can be found on the academic calendar and the Class Schedule registration notice.

Major Academic Plans (MAPs)

The MAPs Web site located at http://www.sdsu.edu/mymap was created to help first-time freshmen navigate the course requirements for their majors. The Major Academic Plans (MAPs) created for each major are not allowed to encompass every major-specific requirement or a required sequencing of courses. Refer to this catalog for a complete description of requirements, including: course prerequisites, minimum grade requirements, unit limitations, and General Education approved courses and distribution requirements.

The MAPs will help you identify which General Education course will also fulfill a major preparation course requirement. They will also suggest sequencing to ensure that you complete prerequisites for an upper-division course prior to taking the higher-level course.

Questions about graduation requirements and General Education should be directed to the Academic Advising Center at 619-594-6668. The Academic Advising Center is located in Student Services, Room 1551 (north of Aztec Center) and online at http://www.sdsu.edu/advising.

Numbering of Courses

Courses numbered 80 through 99 are nonbaccalaureate level and are not acceptable for a bachelor's degree; those numbered 100 through 299 are in the lower division (freshman and sophomore years); those numbered 300 through 499 are in the upper division (junior and senior years) and intended for undergraduates; those numbered 500 through 999 are in the upper division and are also acceptable for advanced degrees when taken by students admitted to graduate standing; those numbered 600 through 799 are graduate courses; and those numbered 800 through 899 are doctoral courses.

Courses numbered at the 900 level, except 997, are reserved for graduate courses in certain professional curricula as part of advanced certificate, credential, and licensure programs and are specifically intended for students admitted to the university with post-baccalaureate classified standing. Undergraduate students may enroll in these courses only if they are officially admitted to a blended or integrated program where undergraduate and credential coursework is included in the same program. Courses numbered at the 900 level are not applicable to other graduate programs.

Courses numbered 397 offered in regular sessions are professional advancement/training or tutorial/discussion classes that may accompany other credit courses and are not acceptable towards an undergraduate or graduate degree.

Courses numbered X-01 through X-79 and X-397 are Extension professional development units offered only through Extension to meet specific academic needs of community groups and are not acceptable toward an undergraduate or graduate degree.

The Unit or Credit Hour

In the listing of courses that follow, figures in parentheses indicate the unit value of the course. One unit or credit hour represents 50 minutes of recitation or lecture, together with the required preparation, or three hours of laboratory work or two hours of activities, each week for a semester.

Prerequisites for Undergraduate Courses

Students must satisfy course prerequisites (or their equivalent) prior to beginning the course to which they are prerequisite. Faculty have the authority to enforce prerequisites listed in the current catalog and current Class Schedule, to evaluate equivalent preparation, and to require proof that such prerequisites/preparation have been completed. Students who do not meet prerequisite requirements can be dropped within the first 12 days of the semester.

General Education and American Institution Courses

Notations in brackets at the end of course titles in the course listings identify courses which satisfy General Education [GE] and American Institutions [AI] requirements. See Graduation Requirements for the Bachelor’s Degree section in this catalog for full explanation.
Common Courses
Experimental or Selected Studies or Topics or Workshop Courses (96, 296, 496, 596)

Courses offered by departments under the numbers 296, 496, 596 are subject to the following conditions: no more than nine units of such courses shall be applicable toward a bachelor’s degree; such courses may be applicable toward the minor or toward preparation for the major only with the approval of the department chair.

Topics courses may be offered by the departments under the number 96. These courses are nonbaccalaureate level and are not acceptable for a bachelor’s degree or General Education.

Special Study (299, 499, 599)

These courses provide opportunity for individual study of a subject not offered in the regular curriculum. The student does this outside of the classroom and must secure the consent of an instructor to supervise the study before registering for the course. The student should discuss the topic with the instructor and come to an understanding on the amount of time to be devoted to the topic, the credit to be earned, and the mode of investigation and report to be used. As with regular courses, the expectation is that the student will devote three hours per week to the subject for each unit of credit. A maximum combined credit of nine units of 299, 499, and 599 is applicable to a bachelor’s degree. Maximum credit of six units of 499 in one department applicable to a bachelor’s degree.

A 499 or 599 number cannot be used to offer lower division coursework. Also, 299, 499, and 599 cannot be used to extend internships, to award academic credit in place of pay, for work experience, or for class-sized groups.

Credit/No Credit Courses

Courses which are offered for credit/no credit are indicated by the symbols Cr/NC in the course title.

Online and Hybrid Courses

Certain courses may be offered as online (distance education) or hybrid (combination online and in-person). The online and hybrid courses offered each term can be found in the Class Schedule.

Faculty Office Hours

All faculty members are required to hold regularly scheduled office hours during the week to allow for student consultation. A schedule of those hours is posted outside each faculty member’s office door.
Accreditation
San Diego State University is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges, 985 Atlantic Avenue, Suite 100, Alameda CA 94501, 510-748-9001; FAX 510-748-9797; e-mail: wascsr@wascsenior.org; http://www.wascweb.org. It is also approved to train veterans under the G.T. Bill.
San Diego State University’s programmatic accreditation is through membership in the following associations:

- Accreditation Council for Graduate Medical Education (Preventive Medicine Residency Program)
  515 N. State Street, Suite 2000
  Chicago, IL 60654
  312-755-7498

- American Association of Colleges for Teacher Education
  1207 New York Ave, NW
  Washington, D.C. 20005

- American Chemical Society
  Committee on Professional Training
  1155 Sixteenth Street, N.W.
  Washington, D.C. 20036
  202-872-4600, http://www.acs.org

- American College of Nurse Midwives Accreditation
  Commission for Midwifery Education
  8403 Colesville Road, Suite 1550
  Silver Spring, MD 20910-6374

- American Psychological Association (Clinical Psychology)
  750 First Street, N.E.
  Washington, D.C. 20002-4242

- Council on Academic Accreditation in Audiology and Speech-Language Pathology
  2200 Research Boulevard
  Rockville, MD 20850-3269
  301-296-5700, http://www.asha.org

- California Commission on Teacher Credentialing
  1900 Capitol Avenue
  Sacramento, CA 95811

- Commission on Accreditation of Healthcare Management Education
  2000 14th Street North, Suite 780
  Arlington, VA 22201
  703-894-0960, http://www.cahtme.org

- Commission on Collegiate Nursing Education
  One Dupont Circle, NW, Suite 530
  Washington, D.C. 20006-1120

- Council for Interior Design Accreditation
  146 Monroe Center NW, #1318
  Grand Rapids, MI 49503-2822

- Council of Graduate Schools
  One Dupont Circle, N.W., Suite 430
  Washington, D.C. 20036-1173

- Council on Education for Public Health
  1015 Fifteenth Street, N.W.
  Washington, D.C. 20005

- Council on Social Work Education
  1725 Duke Street, Suite 500
  Alexandria, VA 22314-3457
  703-663-9080, http://www.cswe.org

- National Association of School Psychologists
  4340 East West Highway, Suite 402
  Bethesda, MD 20814

- National Association of Schools of Art and Design
  11250 Roger Bacon Drive, Suite 21
  Reston, VA 20190

In addition, San Diego State University is accredited by the following agencies:

The College of Business Administration and the School of Accountancy are accredited by AACSB International—The Association to Advance Collegiate Schools of Business—at both the undergraduate and graduate levels. Several College of Business Administration programs are registered with the Certified Financial Planner Board of Standards, 1700 Broadway, Suite 2100, Denver, CO 80206-2101, 303-830-7500.

The College of Engineering undergraduate programs in aerospace engineering, civil engineering, computer engineering, construction engineering, electrical engineering, environmental engineering and mechanical engineering are accredited by the Engineering Accreditation Commission (EAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, 410-347-7700.

The School of Journalism and Media Studies programs in advertising, journalism, and public relations are accredited by the Accrediting Council on Education in Journalism and Mass Communication, Stauffer-Flint Hall, 1435 Jayhawk Boulevard, Lawrence, KS 66045-7575, 785-864-3973, http://www.acejmc/index.html.

The School of Nursing is accredited by the California Board of Registered Nursing, State of California, Department of Consumer Affairs, 400 R Street, Suite 4030, Sacramento, CA 95814, 916-322-3350.

Concentrations in Environmental Health and Occupational Health, in the Graduate School of Public Health are accredited by the American Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202, 410-347-7700.

The undergraduate program in Athletic Training in the School of Exercise and Nutritional Sciences is accredited by the Commission on Accreditation of Athletic Training Education, 2201 Double Creek Drive, Suite 5006, Round Rock, TX 78664, 512-733-9700, http://www.caate.net.

Foods and Nutrition, the Didactic Program in Dietetics in the School of Exercise and Nutritional Sciences is approved by the Commission on Accreditation of Dietetic Education, American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 800-877-1600, http://www.eatright.org/default.aspx.

National Association of Schools of Public Affairs and Administration
1120 G Street, N.W., Suite 730
Washington, D.C. 20005-3801

National Association of Schools of Theatre
11250 Roger Bacon Drive, Suite 21
Reston, VA 20190-5248

National Council on Rehabilitation Education
c/o Charles Arakiyasami, Chief Operating Officer
California State University, Fresno
5005 N. Maple Ave, M/S ED 3
Fresno, CA 93740
559-906-0787, http://www.rehabeducators.org

National Recreation and Park Association
22377 Belmont Ridge Road
Ashburn, VA 20148
703-858-0784, http://www.nrpa.org

Western Association of Graduate Schools
University of Washington, The Graduate School
Box 351240
Seattle, WA 98195-1240

Department of Business Administration
San Diego State University
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# Course Information

## Course Abbreviations

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<th>Program</th>
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<td>ACCTG</td>
<td>Accountancy</td>
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<tr>
<td>ARP</td>
<td>Administration, Rehabilitation and Post Secondary Education</td>
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<tr>
<td>A E</td>
<td>Aerospace Engineering</td>
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