PART FIVE

Summary of Curricula
Major and Credential Codes
Nondegree Curricula
Course Information
Course Abbreviations
Courses and Curricula by Department
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, nursing education, nursing leadership in health care systems, and women's health and midwifery), a Doctor of Nursing Practice (DNP), 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, prelaw, 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 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, the Doctor of Nursing Practice, the Doctor of Physical Therapy, 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 Arts in Teaching
- Master of Science
- Master of Business Administration
- Master of Business Administration and Juris Doctor
- Master of City Planning
- Master of Engineering
- 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
- Educational Specialist in School Psychology
- Doctor of Audiology
- Doctor of Education
- Doctor of Nursing Practice
- Doctor of Philosophy
- Doctor of Physical Therapy
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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)
Emphasis:
Art History
Studio Arts
Art (B.A., Applied Arts and Sciences)
Emphasis:
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)
Emphasis:
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)
Emphasis:
Classical Humanities
Classical Language
Communication (B.A., Liberal Arts and Sciences)
Emphasis:
Telecommunications and Film
Economics (B.A., Liberal Arts and Sciences)
Emphasis:
International Economics
Preprofessional Studies
Environmental Sciences (B.S., Applied Arts and Sciences)
Emphasis:
Watershed Science
Geography (B.A., Liberal Arts and Sciences)
Emphasis:
Methods of Geographical Analysis
Natural Resource and Environmental Physical Geography
Urban and Regional Analysis
Geography (B.S., Applied Arts and Sciences)
Emphasis:
Geographic Information Science
Geological Sciences (B.S., Applied Arts and Sciences)
Emphasis:
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
Tribal Gaming Operations and Management
Humanities (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
Korean
Portuguese
Russian
Spanish
Emphasis in regional/cultural studies:
Africa
Asia
Europe
Latin America
North America
Middle East
South Asia
Southeast Asia
North Africa
Arabic
Central Europe
Western Europe
North America
Spanish
Latin America
North America
Spanish
Western Europe
Europe
Spanish
Western Europe
Environmental Studies
Statistical Computing
Television, Film and New Media (B.S., Applied Arts and Sciences)
Emphasis:
Actuarial Science
Critical Studies
Production
Theatre Arts (B.A., Applied Arts and Sciences)
Emphasis:
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
Microbiology
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
Nursing Education
Nursing Leadership in Health Care Systems
Women’s Health and Midwifery
Psychology (M.S.)
Concentrations:
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.):
Toxicology
Curricula Summary

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

Statistics (M.S.)
Concentration: Bionistics

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, preliminary
- Mild/Moderate Disabilities, preliminary and clear, internship credential
- Moderate/Severe Disabilities, preliminary and clear, 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
Africana 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
- Geologic 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
- Journalism
- 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
- PreInternational Studies
- Psychology
- Public Administration
- Public Relations
- Real Estate
- Recreation
- 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-Mexican Border Studies
- Women’s Studies

Special Curricula
Preprofessional Curricula
- Preclinical
- Prelegal
- Premedical
- Preveterinary

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

Certificate Programs (nondegree)
Academic Literacy Development for English Language Learners
- Accounting
- Algebra Specialist
- Applied Gerontology
- Artist Diploma
- Behavior Analysis
- Bilingual Speech-Language Pathology
- Biomedical Quality Systems

Business Administration (Imperial Valley Campus Only)
- Business and Production Aspects of the Entertainment Industry
- 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
- Educational Facility Planning
- Environmental Studies
- 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
- Preprofessional Health Preparation
- 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
- 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
- Business of Wine
- Construction Estimating Online
- Construction Practices
- Construction Supervisory Online
- Contract Management
- Digital and Social Media
- Financial Management
- Grant Writing
- Green Building Construction
- Green Energy Management
- Health Care
- Human Resource Management
- Lean Enterprise
- Lean Six Sigma
- Marketing and Media
- 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
- Water Management and Landscape Sustainability

SDSU General Catalog 2012-2013 105
**Major and Credential Codes**

**MAJOR CODE KEY:**

U = Undergraduate  
G = Graduate  
+ = Emphasis within another bachelor's degree  
¢ = Concentration within another master's or Ph.D. degree  
# = Specialization within another master's degree  
^ = Specialization within another bachelor's degree  
= International Economics 22042 U  
^ = Communication Studies 06011 G  
+ = Biochemistry 19051 U  
+ = Chemical Physics 19081 U  
+ = Multimedia 06991 U  
+ = Art - MFA 10022 G  
Asian Studies 03011 U & G  
+ = Chinese Studies and Language 03011 U  
+ = Astronomy 19111 U & G  
+ = Athletic Training 08371 U  
Audiology 2202 G  
Bioinformatics and Medical Informatics 07994 G  
+ = Biology 04011 U & G  
Biomedical Quality Systems 09994 G  
Business Administration 05011 U  
Business Administration and Juris Doctor (concurrent program) 05995 G  
Business Administration and Latin American Studies (concurrent program) 49061 G  
+ = Chemical Physics 19081 U  
+ = Chemistry 19051 U & G  
Chemistry and Chicanos Studies 22131 U & G  
Child Development 08231 U & G  
City Planning 02061 G  
Classics 15041 U  
Clinical Psychology 20031 U  
Communication 15061 U  
^ = Communication Studies 06011 G  
= Telecommunications and Film 06033 U  
Comparative International Studies 22997 U  
Comparative Literature 15031 U  
Computational Science 07992 G  
Computer Science 07011 U & G  
Counseling 08261 G  
Creative Writing 15071 G  
Criminal Justice 21051 G  
¢ = Criminal Justice Administration 21051 G  
Criminal Justice and Criminology 22091 G  
Dance 10081 U  
Dance - BFA 10082 U  
Doctor of Nursing Practice 12033 G  
Doctor of Physical Therapy 12122 G  
¢ = Ecology 04021 G  
Economics 22041 U & G  
+ = International Economics 22042 U  
School Psychology (Ed.D.) 08291 G  
Education (MAT) 08292 G  
Education 08311 G  
¢ = Counseling 08361 G  
¢ = Educational Leadership 08271 G

**MAJOR MAJOR CODE**

¢ = EDL: PreK-12 School Leadership 08272 G  
¢ = EDL: Community College/Post-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  
Engineer 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  
¢ = Environmental Engineering 09221 U & G  
¢ = Mechanical and Aerospace Engineering 19020 G  
¢ = Mechanical Engineering 09101 U & G  
¢ = Structural Engineering 09084 G  
¢ = English 15011 U & G  
¢ = Entrepreneurship 05997 G  
¢ = Environmental Science 49011 U  
¢ = European Studies 03101 U  
¢ = Evolutionary Biology 04016 G  
¢ = Exercise Physiology 08355 G  
¢ = Exercise Physiology and Nutritional Science (concurrent program) 08356 G  
¢ = Finance 05041 U & G  
¢ = Financial Services 05043 U  
¢ = Financial and Tax Planning 05043 G  
¢ = Foods and Nutrition 05043 G  
¢ = French 13061 U  
¢ = Geography 11021 U & G  
¢ = Geology 19141 U & G  
¢ = Geophysics 19160 G  
¢ = German 11031 U & G  
¢ = Gerontology 21043 U & G  
¢ = Health Communication 06013 U  
¢ = Health Science 12011 G  
¢ = Homeland Security 22102 G  
¢ = History 22051 U & G  
¢ = Hospitality and Tourism Management 05081 U & G  
¢ = Humanities 15991 U  
¢ = Human Resource Management 05151 G  
¢ = Information Systems 07021 U & G  
¢ = Interdisciplinary Studies 05993 U & G  
¢ = International Business 02131 U & G  
¢ = International Security and Conflict Resolution 22103 U  
¢ = Japanese 11081 U & G  
¢ = Journalism 06021 U  
+ = Advertising 06041 U  
^ = Management and Media Studies 06010 G  
+ = Media Studies 15060 U  
+ = Public Relations 05992 G  
¢ = Juris Doctor and Social Work (concurrent program) 21045 G  
¢ = Kinesiology 08351 U & G  
¢ = Systematics and Evolutionary Biology (Zoology) 04071 G  
¢ = Taxation 05022 G  
¢ = Television, Film and New Media Production 06031 U & G  
¢ = Theatre Arts 10071 U & G  
¢ = Theatre Arts - MFA 09007 G  
¢ = Undeclared 00000 U  
¢ = Urban Studies 22141 U  
¢ = Vocational Education 08995 U  
¢ = Watershed Science 04952 U  
¢ = Women's Studies 08991 U & G

**MAJOR MAJOR CODE**

Language and Communicative Disorders 12201 G  
Latin American Studies and Business Administration 12033 G  
Latin American Studies and Public Administration (concurrent program) 21020 G  
Lesbian, Gay, Bisexual, and Transgender Studies 22990 U  
Liberal Arts and Sciences 49017 G  
Liberal Studies 49015 U  
Linguistics 15051 U & G  
= Management 05061 U & G  
= Marketing 05091 U & G  
= Mathematics-B.A. degree 17011 U & G  
= Mathematics-B.S. degree 17031 U  
= Mathematics and Science Education 08997 G  
= Microbiology 04111 U & G  
Modern Jewish Studies 15102 U  
¢ = Molecular Biology 04161 G  
¢ = Music 10041 U & G  
¢ = Music 10051 G  
¢ = Music 10032 U & G  
¢ = Nursing 12031 G  
¢ = Nursing 12032 U & G  
¢ = Nutritional Sciences 13061 G  
¢ = Nutritional Science and Exercise Physiology 08356 G  
¢ = Operations Management 05064 G  
¢ = Philosophy 15091 U & G  
¢ = Physical Science 19011 U  
¢ = Physics 19021 U & G  
¢ = Physiology 04101 G  
¢ = Political Science 22071 U & G  
¢ = Psychology 20011 U & G  
¢ = Public Administration 21021 U & G  
¢ = Public Administration and Latin American Studies (concurrent program) 21020 G  
¢ = Public Health 12141 G  
¢ = Psychology 12143 G  
¢ = Public Health and Social Work (concurrent program) 12991 G  
¢ = Radiological Health Physics 12251 G  
+ = Real Estate 05111 U & G  
¢ = Recreation Administration 21031 U  
¢ = Regulatory Affairs 49035 G  
¢ = Rehabilitation Counseling 12221 G  
¢ = Religious Studies 15101 U  
¢ = Rhetoric and Writing Studies 15013 G  
¢ = Russian 11061 U  
¢ = Russian and Central European Studies 03071 U  
¢ = Social Science 22011 U  
¢ = Social Work 21041 U & G  
¢ = Social Work and Juris Doctor (concurrent program) 21045 G  
¢ = Social Work and Public Health (concurrent program) 12991 G  
¢ = Sociology 22081 U & G  
¢ = Spanish 11051 U & G  
¢ = Speech, Language, and Hearing Sciences 12201 U & G  
¢ = Statistics 17021 U & G  
¢ = Sustainability 49101 U  
¢ = Systematics and Evolutionary Biology (Zoology) 04071 G  
¢ = Taxation 05022 G  
¢ = Television, Film and New Media Production 06031 U & G  
¢ = Theatre Arts 10071 U & G  
¢ = Theatre Arts - MFA 09007 G  
¢ = Undeclared 00000 U  
¢ = Urban Studies 22141 U  
¢ = Vocational Education 08395 U  
¢ = Watershed Science 49052 U  
¢ = Women's Studies 08991 U & G

*See following page for NUMERICAL LISTING OF MAJOR CODES AND CREDENTIAL CODES.*
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<td>Biomedical Quality Systems</td>
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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.

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.

Preprofessional Health Advising Office

The Preprofessional Health Advising Office is responsible for advising premedical, preclinical, 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 anytime after the beginning of the semester. The advising office is located in GMCS 323 and can be reached at 619-594-6638 or online at http://www.sci.sdsu.edu/preprof/.

Predental Curriculum

The predental 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. Predental students should meet each semester with their major departmental academic adviser to obtain approval for their program for the coming semester. In addition, predental students should confer with the predental 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. Predental 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 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. 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 predental 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/.

Premedical Curriculum

The premedical program is pursued in conjunction with a degree program. Students ordinarily elect to concentrate in biology, chemistry, or microbiology, 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 medical 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 nonscience major in the selection process. Nor is there any significant difference between the science and the nonscience 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. Three to seven individual letters of evaluation are generally required by medical schools and used in the selection process. At least two letters should be from science faculty. Some medical schools now require a letter from a humanities professor. 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.

The varying admission requirements of medical schools are listed in the publication Medical School Admission Requirements (available in the SDSU Bookstore). Since most students seek admission to an average of twenty medical schools, this book should be consulted during the year of application.

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/.

Preprofessional Health Advising

Preprofessional Health Advising is located in the School of Exercise and Nutritional Sciences, ENS 331. The PPHA office can be reached at 619-594-5161 (Patricia Patterson).

Preprofessional Health Advising, located in the School of Exercise and Nutritional Sciences, provides assistance to all preprofessional students. Students interested in fields other than medicine are encouraged to open a file in the PPHA Office. The central office can be reached at 619-594-6638.

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once each semester regarding their program progress. Course requirements for entry to a graduate program in physical therapy vary according to the institution. Information regarding entrance requirements for specific physical therapy schools is available through the American Physical Therapy Association Web site at http://www.apta.org. Each student should consult the major adviser for the level of course required when there are alternatives. It is recommended that students consult at least two years prior to graduation with the physical therapy schools to which they are planning to apply in order to learn the details of the entrance requirements for those particular institutions. Students should expect to fulfill the following general requirements for admission: (1) specific course requirements as outlined above; (2) volunteer experience in a hospital or clinical physical therapy program, under the direct supervision of a licensed physical therapist; (3) satisfactory completion of the GRE examination; (4) overall GPA of 2.8 or higher (the average GPA of applicants accepted to a prephysical therapy program is 3.6) and; (5) grades of “C” or better in basic science courses (biology, chemistry, physics).

Preparation for Other Professions
Full programs of professional study in other fields, such as agriculture, forestry, architecture, and theology, are not available at San Diego State University. However, students who may wish to take some undergraduate work in liberal arts at this university can also begin coursework in preparation for such programs. Students are advised to consult the catalog of the university to which they expect to transfer to determine requirements before arranging the program. Further information may be obtained from the assistant dean of students in the appropriate college at San Diego State University.

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 dean. Students seeking an advanced certificate must be matriculated and apply to SDSU through CSU Mentor.

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 eight class days of the semester. Students who do not meet prerequisite requirements can also be dropped within the first eight 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; OR FOR LACK OF PREREQUISITES. Students are responsible for all coursework 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 meant 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.

1. The MAPs will 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 599 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

As of July 1, 2011 federal law (600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the credit hour. For all CSU degree programs and courses bearing academic credit, the “credit hour” is defined as “the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:”

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practical, studio work, and other academic work leading to the award of credit hours.”

A credit hour is assumed to be a 50-minute period. In courses, in which “seat time” does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.
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 eight days of the semester.

NOT ALL INSTRUCTORS WILL DROP STUDENTS WHO MISS THE FIRST CLASS SESSION AND THE BEGINNING OF THE SECOND CLASS SESSION; OR FOR LACK OF PREREQUISITES. 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.

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. Examination credit awarded for a 299 course is excluded from the nine unit limit. 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.I. 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 College of Nurse Midwives Accreditation Commission for Midwifery Education 8403 Colesville Road, Suite 1550 Silver Spring, MD 20910-6374 240-485-1802, http://www.midwife.org
- California Commission on Teacher Credentialing 1900 Capitol Avenue Sacramento, CA 95811 988-921-2682, http://www.ctc.ca.gov
- National Council on Rehabilitation Education c/o Charles Arakiyama, 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

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, 1425 K Street, NW, Suite 800, Washington, D.C. 20005, 202-379-2200.
- 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.abjr.org
- 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 Dietetics Education, American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 800-877-1600, http://www.eatright.org/default.aspx.
## Course Abbreviations

- **ACCTG**..........Accountancy
- **ARP**.............Administration, Rehabilitation and Post Secondary Education
- **A E**.............Aerospace Engineering
- **A S**.............Aerospace Studies
- **AFRAS**.........African Studies
- **AMIND**.........American Indian Studies
- **ANTH**..........Anthropology
- **ARAB**.........Arabic
- **ART**...........Art
- **ASIAN**.........Asian Studies
- **ASTR**..........Astronomy
- **AUD**...........Audiology
- **BIOMI**.........Bioinformatics and Medical Informatics
- **BIOL**..........Biology
- **BOS**...........Biomedical Quality Systems
- **B A**...........Business Administration
- **CAL**...........Arts and Letters
- **CHEM**.........Chemistry
- **CCS**...........Chicana and Chicano Studies
- **CFD**.........Child and Family Development
- **CHIN**..........Chinese
- **C P**...........City Planning
- **CIV E**.........Civil Engineering
- **CLASS**.........Classics
- **COMM**........Communication
- **CINTS**........Comparative International Studies
- **CLT**...........Comparative Literature
- **COMP**.........Computational Science
- **COMPE**........Computer Engineering
- **CS**............Computer Science
- **CON E**.........Construction Engineering
- **CSP**.........Counseling and School Psychology
- **CJ**...........Criminal Justice
- **DANCE**........Dance
- **DPT**.........Doctor of Physical Therapy
- **ECON**........Economics
- **ED**...........Education
- **EDL**.........Educational Leadership
- **EDTEC**........Educational Technology
- **E E**...........Electrical Engineering
- **ENGR**.........Engineering
- **E M**...........Engineering Mechanics
- **ENGL**.........English
- **ENV E**.........Environmental Engineering
- **ENV S**.........Environmental Science
- **EUROP**.........European Studies
- **ENS**.........Exercise and Nutritional Sciences
- **FILIP**........Filipino
- **FREN**.........French
- **GMS**.........General Mathematics Studies
- **GEN S**.........General Studies
- **GEOG**........Geography
- **GEOI**.........Geological Sciences
- **GERMN**........German
- **GERO**.........Geontology
- **HHS**.........Health and Human Services
- **HEBRW**........Hebrew
- **HIST**.........History
- **H SEC**.........Homeland Security
- **HIP**.........Health, Physical Education and Recreation
- **HUM**.........Humanities
- **INT S**.........Interdisciplinary Studies
- **IB**...........International Business
- **ISCOR**.........International Security and Conflict Resolution
- **ITAL**.........Italian
- **JAPAN**........Japanese
- **J S**...........Jewish Studies
- **JMS**.........Journalism and Media Studies
- **KOR**.........Korean
- **LATAM**.........Latin American Studies
- **LGBT**.........Lesbian, Gay, Bisexual, and Transgender Studies
- **LIB S**.........Liberal Studies
- **LING**.........Linguistics
- **MGT**.........Management
- **MIS**.........Management Information Systems
- **MKTG**.........Marketing
- **MALAS**........Master of Liberal Arts and Sciences
- **MATH**.........Mathematics
- **M S E**.........Mathematics and Science Education
- **MTHED**.........Mathematics Education
- **M E**.........Mechanical Engineering
- **MIL S**.........Military Science
- **M B I O**........Molecular Biology
- **MUSIC**.........Music
- **N SCI**.........Natural Science
- **NAV S**.........Naval Science
- **NURS**.........Nursing
- **NUTR**.........Nutrition
- **OCEAN**.........Oceanography
- **PERS**.........Persian
- **PHIL**.........Philosophy
- **PLC**.........Policy Studies in Language and Cross-Cultural Education
- **POL S**.........Political Science
- **PORT**.........Portuguese
- **PSFA**.........Professional Studies and Fine Arts
- **PSY**.........Psychology
- **P A**.........Public Administration
- **P H**.........Public Health
- **RTM**.........Recreation and Tourism Management
- **R A**.........Regulatory Affairs
- **REL S**.........Religious Studies
- **RWS**.........Rhetoric and Writing Studies
- **RUSSN**........Russian
- **SCI**.........Science
- **SWORK**.........Social Work
- **SOC**.........Sociology
- **SPAN**.........Spanish
- **SPED**.........Special Education
- **SLHS**.........Speech, Language, and Hearing Sciences
- **STAT**.........Statistics
- **SUSTN**.........Sustainability
- **TE**.........Teacher Education
- **TFM**.........Television, Film and New Media
- **THEA**.........Theatre
- **VIET**.........Vietnamese
- **WMNST**.........Women's Studies
- **HONOR**........Honors Program
- **HOTEL**.........Hospitality and Tourism Management