PART THREE

Division of Undergraduate Studies
Division of Graduate Affairs
Division of Research Affairs
Colleges
Library and Information Access
Imperial Valley Campus
Division of Undergraduate Studies

OFFICE: Administration 101
TELEPHONE: 619-594-5841
FAX: 619-594-2049

Administration
Dean: Stephen A. Schellenberg (Interim)
Associate Dean: Shawn T. Flanigan (Interim)
Assistant Dean: Michelle Lopez

General Information
The mission of the Division of Undergraduate Studies is to develop and enhance learning communities that foster inquiry, interdisciplinarity, and academic achievement. By continuously improving and adapting academic programs and services, we nurture students’ abilities to learn, to respect diversity of peoples and ideas, and to work toward social justice and a sustainable future. Through this work, the division creates opportunities for creativity, collaboration, innovation, and academic excellence throughout the university and community.

The division works toward its mission through a variety of university-wide programs and services. The division houses the following:
- Academic Engagement Programs
- Center for Regional Sustainability
- Center for Teaching and Learning
- Compact Scholars Program
- Early Assessment Program
- Interdisciplinary Studies in Three Departments
- National Scholarships and Fellowships
- The Sage Project
- Thomas B. Day Student Success Programs
- Undeclared Advising
- Weber Honors College

The division is also responsible for several university-wide mandates. It provides coordination and evaluation of the undergraduate programs at San Diego State University and has general responsibility for the undergraduate curriculum and for academic standards and regulations that affect undergraduate education. Additionally, it coordinates the Western Association of Schools and Colleges (WASC) reaccreditation process, the assessment of student preparedness in writing and mathematics at the freshman and transfer levels, the assessment of student learning, and of the Graduation Writing Assessment Requirement.

Research Center

Center for Regional Sustainability
Jessica A. Barlow, Director

The San Diego State University Center for Regional Sustainability (SDSU/CRS) fosters research; establishes collaborations across campus and with partners from business, government, and education; and generates solutions that enhance the natural environment, economic vitality, and social equity in our region (San Diego and Imperial Counties, and northern Baja California). The SDSU/CRS is also home to the Sage Project. More information is available at http://crs.sdsu.edu.

Programs and Services

Academic Engagement Programs
José Preciado, Director

The office implements the Common Experience, the Faculty-Student Mentoring Program, the Service Learning and Community Engagement Program, the Undergraduate Research Program, and the Undergraduate Studies Internship Program. These programs support high impact educational practices that increase faculty-student interactions, deepen student learning, and lead to advanced student achievement.

Common Experience (CE). The Common Experience (CE) serves to facilitate increased interactions among faculty, staff, and students through a focus on common contemporary themes, related readings, and academic endeavors. On an annual basis, the Common Experience advisory committee selects a timely and relevant theme and invites participation from across the campus to prepare a series of lectures, seminars, and complementary academic activities by faculty, authors, community, and civic leaders for the following academic year. CE lectures and activities extend student learning and faculty-staff-student experiences beyond the classroom. Students will engage in deconstructing and exploring a common subject, treated and examined through multidisciplinary lenses, learn to value intellectual and personal responsibility, and apply academic thought towards finding meaningful solutions to real-world problems. For information about CE themes and activities, call 619-594-2209 or visit http://commonexperience.sdsu.edu/dus/commonexperience.

Faculty-Student Mentoring Program (F-SMP). Faculty-Student Mentoring Program (F-SMP) serves to support student engagement and development through undergraduate research, scholarship, and creative activities. Central to these efforts is the development of long term relationships between students and their faculty mentors as they engage in academically purposeful tasks. To achieve this mission, the program supports eligible students by providing academic planning guides to help students participate in rigorous academic endeavors and activities; facilitating participation in undergraduate research, scholarship, and creative activities across colleges and disciplines; offering active student academic support for these efforts through workshops and undergraduate university seminars; fostering mentoring, coaching, and other nurturing interactions among students and faculty mentors; and by presenting students with opportunities for regional and national professional forums. For more information about the mentoring program, visit http://fsm.p.sdsu.edu/dus/fsm or call 619-594-2209.

Service Learning and Community Engagement Program (SLCEP). The Service Learning and Community Engagement Program (SLCEP) is a faculty outreach and development program that serves to increase student learning through course-based study that connects to responsive civic action in local, regional, or international locales. SLCEP initiatives are designed and implemented to foster civic engagement, civic participation, and civic responsibility. The goals of the SLCEP are to integrate service learning with other high-impact practices, such as study abroad and participatory action research (PAR); to document student learning in community contexts; and to continue developing a system to track SDSU community service contributions and partnerships. The program also sponsors General Studies 280 and 480 each semester. See the Class Schedule for times and faculty participation listings. For more information about the program, visit http://dus.sdsu.edu/dus/service/ or call 619-594-2209.
Undergraduate Research Program (URP). The Undergraduate Research Program (URP) provides faculty with mini-grants to support student participation in undergraduate research, scholarship, or creative activities (URSCA). Faculty serve as mentors, seminar leaders, and/or General Studies 490 instructors. Mini-grant funded projects support students to meet URSCA learning outcomes and present their work to peers and faculty in campus, regional, or international forums. Faculty and student participants are encouraged to collaborate for at least two semesters. Additional resources are available for student travel to conferences. The URP seminar in undergraduate research, General Studies 490, may be taken by students multiple times to earn up to a maximum of six units of credit. Enrollment is subject to approval by instructors. Students must consult with their undergraduate advisers to verify that General Studies 490 units can be used to meet graduation requirements for the major or the degree. For additional information, visit http://dus.sdsu.edu/dus/urp/ or call 619-594-2209.

Undergraduate Studies Internship Program (USIP). The Undergraduate Studies Internship Program (USIP) serves students who do not have internship requirements in their major and are seeking options to earn college academic credit to meet graduation requirements. Students may earn one to three units of General Studies 200 or 400 credit with an approved plan prior to starting an internship in the fall or spring semester. Three-unit General Studies 200 or 400 summer sections are offered for the T1 session (13 weeks). Summer fees apply. For more information about the program, visit http://dus.sdsu.edu/dus/dusinternships/ or call 619-594-2209.

National Scholarships and Fellowships
Michelle Lopez, Assistant Dean

The National Scholarships and Fellowships Office supports SDSU students interested in applying for prestigious national and international scholarships, such as the Goldwater, Marshall, Rhodes, Truman, and Udall scholarships. Candidates for these awards include diverse majors, both honors and non-honors undergraduate students, from across the university. In addition to assisting candidates applying to these major scholarships, the National Scholarships and Fellowships office works closely with SDSU faculty to identify potential candidates and to encourage prospective candidates to apply for these major awards.

To be competitive for these awards of excellence, students are encouraged to maintain the highest possible academic performance, enroll in courses that encourage critical thinking from a broad range of perspectives, participate in campus and community activities beyond membership, and take on leadership roles when appropriate. Current and prospective students interested in learning more about national scholarships and fellowships should visit: http://onsf.sdsu.edu/dus/scholarships/ and schedule an appointment with Michelle Lopez, Assistant Dean, Division of Undergraduate Studies, mlopez@mail.sdsu.edu or call 619-594-5842.

Center for Teaching and Learning (CTL)
Jennifer Y. Imazeki, Director

The Center for Teaching and Learning (CTL) promotes effective teaching and learning at SDSU through collaborative ventures with individual faculty, academic units, support services, and student leaders. The center assists SDSU’s varied learning communities to:
- define learning goals;
- explore, understand, and improve learning processes;
- create learning activities and environments that improve student success;
- design, organize high-impact and informal learning opportunities;
- apply sound principles of teaching, learning, and technology to the design of courses and academic programs; and
- assess the effectiveness of educational services and systems and utilize assessment data to guide improvements.

The center serves as a campus clearinghouse for information about teaching and learning resources and holds orientations and other events for new faculty. It sponsors an extensive series of complementary lunch, discussions, and workshops, open to all faculty and student support professionals, on contemporary issues in teaching and learning ranging from the design of learning activities to cultural and psychological factors in student learning and achievement. Working with Instructional Technology Services, Library and Information Services, the Division of Student Affairs, the College of Education, and other units, the center coordinates training to help faculty and administrators design and assess courses and academic programs.

CTL provides confidential and supportive services to individual faculty members at their request, assisting with reviews of teaching evaluation data and improvement of classroom presentations and activities.

For more information, visit http://ctl.sdsu.edu or call 619-594-3157.

Compact Scholars Program
Janet Abbott, Director

The Compact Scholars Program (CSP) is the postsecondary component of the Compact for Success Partnership between the Sweetwater Union High School District and San Diego State University. The program supports student success by connecting this community of largely local commuter students to the resources offered on campus. Compact Scholars are encouraged to actively engage in “high-impact” educational experiences, such as undergraduate research programs, study abroad, community based service learning activities, and leadership development.

The goal of the CSP is to promote higher graduation rates for Sweetwater District students by deepening student engagement. The first class of Compact Scholars matriculated to San Diego State University in 2006. As of May 2013, four classes of Compact Scholars have graduated. For more information about the Compact Scholars Program, visit http://csp.sdsu.edu/dus/compactscholars or call 619-594-3803.

For more information about the Compact for Success, visit http://compactforsuccess.sdsu.edu/compact or call 619-594-0732.

Early Assessment Program
Rosie Villafana-Hatcher, Director

The Early Assessment Program (EAP) is a collaborative effort among the State Board of Education (SBE), the California Department of Education (CDE), and the California State University (CSU). The program was established to provide opportunities for students to measure their readiness for college-level English and mathematics in their junior year of high school, and to facilitate opportunities for them to improve their skills during their senior year. The goal of the EAP program is to have California high school graduates enter the CSU fully prepared to begin college-level study. The program has three major components: early testing, the opportunity for additional preparation in the 12th grade, and professional development activities for high school English and mathematics teachers. For more information about the Early Assessment Program, visit: http://eap.sdsu.edu or call 619-594-0657.

Interdisciplinary Studies in Three Departments
Paul W. Justice, Director

The interdisciplinary studies in three departments (IS3D) major at San Diego State University is a special major designed for students whose career goal or academic interest is not addressed by an existing SDSU major or major/minor pattern. Because three disciplines are involved, the program must have a clear focus and depth that make academic sense; the areas of study and the choice of courses within these departments must complement each other. Students are responsible for identifying the fields they wish to pursue and developing a program of study with the assistance and written approval of multiple advisers, and defending their choices orally and in writing.

For more information about the interdisciplinary major in three departments, see the General Catalog or visit http://dus.sdsu.edu/dus/interdisciplinarystudies.aspx.
The Sage Project
Jessica A. Barlow, Director

The Sage Project is a partnership between San Diego State University and a local government in the San Diego region for an academic year. The Sage Project focuses courses across the university on assisting with projects that address the partner’s sustainability goals and pressing community needs. Students have the opportunity to engage in meaningful real-world projects and contribute to the quality of life of a community in SDSU’s service area through their course-based effort. The Sage Project embodies the university’s commitment to serving local students, engaging alumni, and contributing to the public good by focusing thousands of hours of course-based student effort in a community in our service area. The program ensures that the many ideas developed by students through their coursework—that might otherwise only be appreciated by a faculty member—are distributed to a wider audience, thereby ensuring a positive impact on the community and strengthening civic ties among local students. The true benefit of the program is the positive attention, collaborative learning, and new momentum the partnership provides for students, faculty, city staff, and residents. For more information about the learning, and new momentum the partnership provides for students, visit http://sage.sdsu.edu or call 619-594-3807.

Thomas B. Day Student Success Programs
Janet Abbott, Director

Endowed by Bernard and Doris Lipinsky, the Thomas B. Day Student Success Programs seek to ensure the success of all students at the university, by helping to provide pathways to student support services and to enrich learning opportunities via high-impact educational practices. In order to serve the whole student, the Thomas B. Day Student Success Programs forms intentional partnerships between the Division of Undergraduate Studies, the Division of Student Affairs, and the Academic Colleges, that include the following:

Residential Learning Communities. A Residential Learning Community is an option in which first-year students live and take courses together. Small groups of students take courses that fulfill graduation requirements and bring together students with a common interest or a common area of study, such as justice or business. Students in Residential Learning Communities take advantage of special academic support services and additional computer laboratories and study lounges. Visit http://undeclared.sdsu.edu/dus/learning-communities to learn more about this enriched housing option.

University Seminar. One-unit elective courses (General Studies 100) provide students with an opportunity to explore a variety of areas that define the university experience at a major comprehensive university. In some instances, these courses are embedded within the Residential Learning Communities—including the Honors Residential College. In other cases, the courses are program-defined, for example, offered by EOP, Athletic Support Services, or the Compact Scholars Program.

Division of Undergraduate Studies Student Learning Lounge.
Housed in Administration, Room 201, the Student Learning Lounge is one of the few indoor study spaces open to all students on campus outside of Love Library, that promotes deeper student engagement and academic activities to ensure student success.

The DUS Student Learning Lounge provides a learning commons for students to study, access academic resources, and to meet face-to-face with valuable student support professionals during the academic week. It is also a shared space between the students, faculty, and staff. In addition to serving as a comfortable study space, the lounge also provides access to several computers, a printer, kitchenette, and a conference room and outdoor patio that may be reserved by students and staff for group study or meetings. DUS students assist in monitoring the operation of the lounge that is frequented by their peers in various DUS programs including, but not limited to the Compact Scholars Program and Weber Honors College.

Undeclared Advising
Paul W. Justice, Adviser

First-year students who are undecided about a major have the option of the undeclared premajor. Undeclared premajors have the flexibility and challenge to complete a variety of course options while still earning their degree within four years. The Division of Undergraduate Studies collaborates closely with Career Services to support students in choosing a major. Additional resources and support also include the participation in the Undeclared College Council, utilization of the Undeclared Blackboard Homeroom, and year-round group advising sessions. Students are encouraged to follow the Undeclared MyMap, meet with a career counselor at Career Services their freshmen year, and visit with faculty and staff advisers in their premajor(s) of interest as soon as possible. Undeclared students are also encouraged to conduct informational interviews with professionals employed on campus and in the community to connect possible majors with future employment opportunities. For more information, visit http://undeclared.sdsu.edu/dus/undeclared/Default.aspx or call 619-594-5842.

Weber Honors College
Stacey L. Sinclair, Director

The Weber Honors College is a community of scholars-students, faculty, and staff-committed to high academic achievement, the development of leadership skills, social responsibility, and international experience. The Weber Honors College features unique courses and small seminars through which students, working closely with faculty mentors, learn to think flexibly, solve complex problems, and pursue the creative expression of ideas. These classes are characterized by discussion, debate, and the pursuit of intellectual challenges that prepare students for high-impact educational experiences regardless of their chosen field of study.

Honors Residential College. Entering first year students accepted into the Weber Honors College are required to live in the Honors Residential College in Maya Hall during their first year. This opportunity is designed to ensure an exceptional undergraduate experience for honors students by integrating the unique components of the honors experience with the enriched advantages that Residential Learning Communities provide. The Honors Residential College features a supportive educational environment where students from diverse backgrounds pursue academic, co-curricular, and experiential activities related to campus activities, leadership opportunities, and academic engagement.

Weber Honors College students have the use of the Darlene Gould Davies Honors Study room, located in Love Library, Room 428A, as well as a Student Learning Lounge adjacent to the Weber Honors College offices (Administration, Room 201). For a description of the Weber Honors College, admission requirements, and curriculum, refer to the Weber Honors College in the Courses and Curricula by Department section of this catalog. Information about the Weber Honors College can be accessed online at http://www.sdsu.edu/honors.

Departmental Honors Courses. Some departments regularly offer honors classes independently of the Weber Honors College, with eligibility defined by the sponsoring department. Students should consult the Class Schedule for such honors classes and contact the department or instructor for additional information.
Organization and Administration

The Division of Graduate Affairs is under the jurisdiction of the Office of the Provost whose administrative officers are the vice president for research and the dean of the Division of Graduate Affairs. In coordination with the Graduate Council, the division has responsibility for all graduate curricula and policy matters governing graduate study at San Diego State University. The dean of the Division of Graduate Affairs serves as chair of the Graduate Council.

The Division of Graduate Affairs, in conjunction with Graduate Admissions, admits all students to the university. The Division of Graduate Affairs authorizes graduate degree curricula, evaluates, and processes students for graduation. The Division of Graduate Affairs also determines students’ eligibility to continue in such curricula and, in the cases of unsatisfactory performance, requires students to withdraw from graduate curricula and the university.

The dean of the Division of Graduate Affairs is the appropriate university authority for the administration of all matters related to graduate admissions, academic status, and graduate degree curricula, minimum requirements for which are specified in Section 40510 of the California Code of Regulations.

Association Membership

San Diego State University is a member of the Western Association of Graduate Schools and the Council of Graduate Schools in the United States.

Degrees Offered

All master’s degrees are conferred by the trustees of The California State University upon recommendation of the faculty of San Diego State University. These degree programs provide instruction for graduate students in the liberal arts and sciences, in applied fields, and in the professions, including the teaching profession.

Doctor of Philosophy degrees and a professional doctorate (Au.D.) degree are awarded jointly by the Board of Regents of the University of California and the Board of Trustees of The California State University in the names of San Diego State University and the cooperating campus of the University of California; in Education, jointly by the Board of Trustees of The California State University and the Board of Fellows of Claremont Graduate University. The Doctor of Education degree (Ed.D.) is awarded jointly by the Board of Trustees of The California State University and the trustees of the University of San Diego in the names of San Diego State University and the University of San Diego. The Doctor of Education degree (Ed.D.) in educational leadership, the Doctor of Nursing Practice (DNP), and the Doctor of Physical Therapy (DPT) are awarded by the Board of Trustees of The California State University.

Doctor of Philosophy

Biology (Cell and Molecular)  Chemistry
Clinical Psychology  Computational Science/Statistics
Ecology  Education
Engineering Sciences  Bioengineering
Electrical and Computer Engineering  Mechanical and Aerospace Engineering
Structural Engineering  Evolutionary Biology
Geography  Geophysics
Interdisciplinary Research on Substance Use  Language and Communicative Disorders
Mathematics and Science  Education
Public Health/Epidemiology  Public Health/Global Health
Public Health/Health Behavior

Doctor of Education

Education  Educational Leadership:
Concentration in PreK-12 Leadership
Concentration in Community College/Postsecondary Leadership

Professional Doctorates

Audiology  Doctor of Nursing Practice
Doctor of Physical Therapy

Educational Specialist

Ed.S. in School Psychology

Master of Arts

Anthropology  Art
Asian Studies  Biology
Chemistry  Chicanx and Chicano Studies
Communication  Economics
Education  English
French  Geography
History  Interdisciplinary Studies
Latin American Studies  Liberal Arts and Sciences
Linguistics  Mathematics
Music  Philosophy
Physics  Political Science
Psychology  Rhetoric and Writing
Studies  Sociology
Spanish  Speech, Language, and Hearing Sciences
Teaching  Television, Film and New Media Production
Theatre Arts  Women's Studies

Master of Science

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

Professional Master's Degrees

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

Master of Fine Arts

Art  Creative Writing
Theatre Arts

Concurrent Degrees

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

Applicants seeking admission to graduate study at San Diego State University must apply and be accepted in one of the following categories:

- **Post-Baccalaureate Standing (Unclassified).** Exchange students (non-foreign), visitors from other CSU campuses, and other transitory students may be admitted for one semester as unclassified graduate students; or

- **Post-Baccalaureate Standing (Conditional Classified, Credential, and Certificate).** Persons wishing to enroll in a credential in professional education or a certificate program who meet the criteria specified under General Admission Requirements but who have deficiencies for classified admission to the department's credential or certificate program. Admission is dependent on if the deficiencies can be met by specific additional preparation, including qualifying examinations. No more than 18 semester units may be assigned to satisfy deficiencies in prerequisite education; or

- **Post-Baccalaureate Standing (Classified).** Persons wishing to enroll in a credential (only) or certificate (only) program. Persons will also be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, as prescribed by the appropriate department and campus; or

- **Graduate Standing (Conditional Classified).** Applicants may be admitted to a graduate degree program in this category if deficiencies may be remedied by additional preparation, as determined by appropriate campus authority; or

- **Graduate Standing (Classified).** To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, as prescribed by the campus under General Admission Requirements.

These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website http://www.calstate.edu and the CSU admissions portal http://www.csumentor.edu are good sources of the most up-to-date information. For SDSU graduate admission procedures, see the Admission and Registration section of this catalog.

Graduate Bulletin

A Graduate Bulletin is published annually in May and contains complete details on SDSU graduate study. The Graduate Bulletin can be accessed online at http://www.sdsu.edu/catalog/bulletin.
Research Affairs

The Division of Research Affairs is responsible for the institutional approval of all grant proposals and contracts relating to sponsored research, instruction, and service agreements; administration of research regulatory and intellectual property services; administration of intramural faculty grants, fellowships and other institutional research support programs; administration of university cost-sharing; coordination of SDSU Research Foundation/University liaison.

The Division of Research Affairs is supervised by the director, who with the vice president for research, is responsible for the development, improvement, and administration of research activities at the university.

The importance of research in graduate instruction is recognized by the faculty, and all graduate programs provide for research on the part of the graduate student. Graduate students involved in thesis or other research at the university must comply with all applicable university research policies, including, but not limited to, those related to the use of human and animal subjects in research.

University Research Facilities and Organizations

Among the facilities for research that students may utilize are those provided in organized bureaus, centers and institutes located on the campus; specialized off-campus research facilities and field stations; inter-institutional, consortia and other cooperative research facilities.

Graduate Research Centers and Institutes

California State University Program for Education and Research in Biotechnology (CSUPERB)

Susan Baxter, Executive Director

Created in 1987 as a systemwide program, the California State University Program for Education and Research in Biotechnology (CSUPERB) develops a professional biotechnology workforce by mobilizing and supporting collaborative CSU student and faculty research, innovating educational practices, and responding to and anticipating the needs of the life science industry. The CSUPERB program office is hosted at San Diego State University. CSUPERB promotes biotechnology workforce development by supporting innovative coursework and programs, real-world research experiences, and core resources for faculty and students at all 23 CSU campuses. The program involves students and faculty from life sciences, physical sciences, clinical sciences, engineering, agriculture, mathematics, business and computer science departments. CSUPERB organizes the annual CSU Biotechnology Symposium and serves as the official biotechnology liaison for the CSU with government, educational, and industry partners. In addition, CSUPERB administers and manages a Small Business Administration (SBA) award to develop biotechnology industry responsive curricula.

CSUPERB recognizes that modern biotechnology preparation requires the integration of coursework, hands-on practice and participation in multi-disciplinary, team-based research projects. CSUPERB grants and awards programs have been developed to support these activities systemwide. Programs include: Howell-CSUPERB Research Scholars Awards for undergraduate student researchers, the Crellin Pauling Student Teaching Awards, the Don Eden Graduate Student Research Awards, Travel Grants programs for students and faculty, the New Investigator Grants, the Research Development Grants, the Entrepreneurial Joint Venture Grants, and Biotechnology Programmatic Development Grants. These programs award more than $650,000 to CSU faculty and students annually.

CSUPERB programs and activities are administered by an Executive Director, a strategic planning council composed of faculty and deans from CSU campuses, and a faculty consensus group of four faculty representatives from each CSU campus. CSUPERB is overseen by a Presidents’ Commission of CSU presidents from CSU Channel Islands, CSU Los Angeles, CSU San Marcos, Humboldt State University, San Jose State University, and an Executive Vice Chancellor. Visit the program websites at http://www.calstate.edu/csuperb and http://www.csubiocompass.org for more information.

Mount Laguna Observatory

Paul B. Etzel, Director, Professor Emeritus

San Diego State University operates Mount Laguna Observatory under special permit from the US Forest Service some 45 road miles east of the campus at an elevation of 6100 feet in the Cleveland National Forest. The current research telescopes include two reflectors with apertures of 24- and 40-inches; a new 48-inch reflector is being built jointly with the University of Kansas. Each has a modern telescope control system that allows for remote and robotic observing over the Internet via high-speed (45 Mbps) wireless connectivity through the University of California, San Diego. Auxiliary equipment includes multiple CCD cameras, Near-IR camera, CCD spectograph, and photoelectric photometers. Support facilities include a shop building, dormitory and apartments for observers. Associated with the observatory is the Awona Harrington Visitor Center, which supports educational programs and visiting astronomers. The 21-inch Buller telescope serves General Education classes on the main campus, and limited public outreach programs in the summer months with the US Forest Service. The website is http://mntaka.sdsu.edu.

Regulatory Compliance

Conflict of Interest Committee

SDSU investigators submitting, renewing, or participating in a proposal requesting funds from any designated external sponsor or receiving a gift or monetary pledge must file the appropriate financial disclosure statement at the time of the submission of the federal proposal, or within 30 days or prior to receipt of a privately sponsored grant or contract or receipt of a gift or monetary pledge. Disclosures must be updated on an annual basis during the period of the award and as new reportable significant financial interests are obtained. Disclosure statements are reviewed and evaluated by the Conflict of Interest Committee. The committee reviews the information provided by the investigator to determine whether the financial interest could affect the conduct or reporting of the project, and determine if any conditions or restrictions should be imposed on the investigator or research protocol in order to manage, reduce, or eliminate conflicts that are identified. The committee may also evaluate whether the financial interest has the potential to influence financial expenditures, personnel decisions, or facilities usages, limit or influence the teaching and research environment of the university. For more information contact the Division of Research Affairs, 619-594-5938. The website is https://newscenter.sdsu.edu/researchaffairs/coi.aspx.

Institutional Animal Care and Use Committee

The Institutional Animal Care and Use Committee at SDSU functions in accordance with Federal and State regulations and institutional policy. The Division of Research Affairs provides administrative support to this committee for implementing university policy for research, testing, or education involving the use of animals. Call 619-594-0905 for more information. The website is https://newscenter.sdsu.edu/researchaffairs/animalcare.aspx.
Institutional Biosafety Committee
SDSU is responsible for ensuring that recombinant DNA research or experiments involving biological or potentially hazardous materials are conducted in compliance with the National Institute of Health Guidelines to promote safe and responsible practices. The Institutional Biosafety Committee (IBC) reviews research for this purpose. The Division of Research Affairs provides administrative support to the IBC.

For information regarding SDSU's Biosafety Program, visit the Environmental Health and Safety website at http://ehs.sdsu.edu/ or contact the Institutional Biosafety officer at 619-594-9469. For information specific to the Institutional Biosafety Committee, contact the Division of Research Affairs, 619-594-0905 or e-mail ibc@mail.sdsu.edu. The website is https://newscenter.sdsu.edu/researchaffairs/ibc.aspx.

Institutional Review Board (IRB)
The Institutional Review Board (IRB) reviews research when procedures are proposed to obtain information about a living individual through the use of a survey, interview, observation, experimentation, or the analysis of human tissues, records, samples, or other data previously collected from human subjects. All research involving human subjects, conducted within the jurisdiction of SDSU's Federalwide Assurance, must be reviewed and approved by the IRB in advance of study initiation. The IRB reviews research involving human subjects to determine and certify that all projects comply with the federal and institutional regulations and policies, and ethical standards.

The Division of Research Affairs provides administrative support to the IRB. For general information, application procedures, guidance on ethical practices, and submission deadlines visit the website at http://gra.sdsu.edu/research/irb, e-mail irb@mail.sdsu.edu, or call 619-594-6922.

Research Promotion

Albert W. Johnson University Research Lecture
Sponsored by the University Research Council and Graduate and Research Affairs, the Albert W. Johnson University Research Lectureship is awarded annually to an SDSU faculty member for outstanding achievement in research and scholarship. The purpose of the University Research Lectureship is to recognize such achievement, to foster its continuance, and to enable a distinguished resident faculty scholar to share knowledge more broadly with the academic community and the community-at-large.

Lecturers have included Dr. Joseph W. Ball, Professor of Anthropology; Dr. Diane K. Lapp, Professor of Teacher Education; Dr. Arthur Getis, The Stephen and Mary Birch Foundation Chair in Geographical Studies and Professor of Geography; Dr. Dipak K. Gupta, Professor of Political Science; Dr. E. Percil Stanford, Professor of Social Work; Dr. Donna J. Thal, Professor of Speech, Language, and Hearing Sciences; Dr. Catherine Yi-yu Cho Woo, Professor of Chinese [Senate Distinguished Professor]; Dr. Edward P. Riley, Professor of Psychology; Dr. Melbourne F. Howell, Professor of Public Health; Dr. William Q. Tong, Professor of Chemistry and Biochemistry; Dr. Eugene A. Olevsky, Professor of Mechanical Engineering; Dr. Walter G. Oechel, Professor of Biology; Dr. Mark A. Sussman, Professor of Biology; Dr. John P. Elder, Professor of Public Health; Dr. James F. Sallis, Professor of Psychology; Dr. John R. Weeks, Professor of Geography; Dr. Sanford I. Bernstein, Professor of Biology; Dr. Karen D. Emmorey, Professor of Speech, Language, and Hearing Sciences; Dr. Samuel S.P. Shen, Professor of Mathematics; Dr. Joanne M. Ferraro, Professor of History; and Dr. Douglas A Stow, Professor of Geography. The website is http://newscenter.sdsu.edu/researchaffairs/researchlectures.aspx.

University Grants Program
The University Grants Program (UGP) was created to integrate three independent funding mechanisms through which faculty derive internal support for creative and scholarly research. These internal funding sources now include: Research, Scholarship, and Creative Activity (RSCA) awards, the Faculty Development Program (FDP), and Faculty Grant-in-Aid for Research (GIA), the Adams Humanities Endowment and the Office of the Provost. The Division of Research Affairs administers the UGP. For more information, contact the Division of Research Affairs at 619-594-5938 or visit the website at http://gra.sdsu.edu/research/ugp.

University Copyrights and Patents Committee
The University Copyrights and Patents Committee (UCPC), a standing committee of the University Research Council, is charged with implementing the provisions of the copyrights, trademarks, and trade secrets policy, reviewing disclosures and declarations to ascertain the extent of institutional support involved in the completion of intellectual properties and make recommendations to the vice president for research of assignment of ownership rights and division of royalties. For more information about the UCPC and the SDSU policy, see the intellectual properties section of the website at http://gra.sdsu.edu/ucpcresearchintproptechdev.html.

Student Research Committee
The Student Research Committee (SRC) is responsible for planning the annual Student Research Symposium (SRS) to showcase student research, scholarship, and creative activities. In addition, members of this committee assist in the review of Graduate Student Travel Fund applications and make recommendations for the Inamori Fellowship program. For more information, visit the website at http://gra.sdsu.edu/research/srs.

Technology Transfer Office (TTO)
The Division of Research Affairs (DRA) and the Technology Transfer Office (TTO) serve SDSU in the management of new intellectual property developed by SDSU faculty and staff. Both play an active role with responsibilities to ensure compliance with all relevant laws as well as to open doors for impacting the communities where our researchers work. The TTO provides a central location where faculty, students, and staff may receive advice and assistance in the commercialization of their inventions, copyrights, and other scholarly work. In addition, the TTO assists in setting up new spin-off companies and obtaining venture capital for future development. The TTO is an SDSU Foundation office, functioning on behalf of the university community. For more information, call 619-594-0516 or visit the TTO website at http://tto.sdsu.edu.
College of Arts and Letters

Administration
Dean: Norma Bouchard
Associate Dean: Eniko Csomay
Associate Dean: Mahdavi M. McCali
Assistant Dean for Student Affairs: Michelle Lenoue (Interim)
Director of Development: Janee Shaw
Director of Resources Management: Elaine Rother

General Information
The College of Arts and Letters is at the very heart of liberal arts education at San Diego State University. Its programs in the humanities and social sciences are offered through 19 academic departments and several interdisciplinary programs, each of which is designed to help students to understand their role in society and to develop aesthetic sensibilities. Arts and Letters courses are offered to explore the experiences of men and women in society, their cultural expressions and practices, their languages, and their philosophical concepts. The college's highly trained, professionally active faculty seek to give students an awareness about the development of present knowledge and how to generate new knowledge. Students are encouraged to develop keen observation skills, the capacity to think critically, and the ability to express their views intelligently and sensitively as leaders. More information can be found at http://cal.sdsu.edu.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Arts and Letters.

Doctoral Program
Geography

Master's Degrees
Anthropology (M.A.), Asian Studies (M.A.), Chicana and Chicano Studies (M.A.), Creative Writing (M.F.A.), Criminal Justice and Criminology (M.S.; jointly with the College of Professional Studies and Fine Arts), Economics (M.A.), English (M.A.), French (M.A.), Geography (M.A., M.S.), History (M.A.), Latin American Studies (M.A., M.B.A./M.A.; jointly with the College of Business Administration), M.P.A./M.A., jointly with the College of Professional Studies and Fine Arts, M.P.H./M.A., jointly with the College of Health and Human Services), Liberal Arts and Sciences (M.A.), Linguistics (M.A.), Philosophy (M.A.), Political Science (M.A.), Rhetoric and Writing Studies (M.A.), Sociology (M.A.), Spanish (M.A.), Women's Studies (M.A.).

Bachelor's Degrees

Minors

Preprofessional Curriculum
Prelegal

Certificate Programs

Research Centers and Institutes

Center for Asian and Pacific Studies
Sandra A. Wawrytko, Director
The Center for Asian and Pacific Studies brings together interested students, faculty, and community members, to promote teaching, research, and contemporary dialogues on the cultures and societies of Asia and the Pacific Rim and their relationships to North America. To explore East Asia, South Asia, Southeast Asia, the Pacific Rim, and Asian American communities, the center draws on the academic resources of multiple departments and programs within and outside of the College of Arts and Letters, including: anthropology, art, Chinese, comparative literature, economics, geography, history, Japanese, linguistics, philosophy, political science, religious studies, sociology, and women's studies. The center supports colloquia and symposia, curriculum development, student and faculty research, community research, international programs, and new college initiatives to educate students, community members, and working professionals about Asian and Pacific languages, cultures, politics, economies, histories, and societies. The center promotes faculty and student exchanges with Asian universities as well as study abroad programs in the Asia Pacific. The center houses the undergraduate major, the emphasis in Chinese Studies and Language, a minor in Asian studies, a minor in Chinese studies, as well as the graduate program. For more information, please visit http://asiapacific.sdsu.edu.

Bread and Roses Center
Doreen Mattingly and Kimala Price, Co-Directors
The Bread and Roses Center for the promotion of creativity, scholarship, and community action in support of the women's movement, is the first such center in the nation. The Bread and Roses Center plays a central role in promoting activism in close connection with research and teaching. Since its founding in 2002 by the Department of Women's Studies, the center has been home to interdisciplinary and intersectional projects that foster women's economic, social, and political empowerment; promote internationalization and transnational feminist collaborations; build a stronger local feminist community within the university and with other San Diego organizations; link feminist theory to practice; and train future feminist advocates and professionals.

Director of Development: Janee Shaw
Associate Dean: Eniko Csomay
Dean: Norma Bouchard
The Bread and Roses Center is housed in the Department of Women’s Studies and can be reached by contacting the department office at 619-594-2952 or on the website at http://breadandroses.sdsu.edu.

National Center for the Study of Children’s Literature (NCSCSL)
Joseph T. Thomas, Jr., Director

Situated in the Department of English and Comparative Literature, the National Center for the Study of Children’s Literature (NCSCSL) embodies SDSU’s long-term commitment to the study of children’s and adolescents’ literatures. As one of North America’s oldest and largest programs, SDSU’s children’s literature program employs many specialists with national and international reputations and enrolls as many as 1,000 students annually in its undergraduate classes, in its Master of Arts degree in English, specialization in children’s literature, and in its Advanced Certificate in Children’s/Adolescent Literature.

As a research center, the NCSCSL hosts visiting scholars, sponsors annual lectures and special events, and provides faculty with the wherewithal to engage in scholarship within a collegial environment. In terms of campus and community outreach, NCSCSL faculty collaborate with other programs and departments, conduct summer programs and professional seminars for K-12 teachers, discuss books for the young in various media outlets, and speak to public and professional groups. NCSCSL faculty and students also review contemporary children’s/young adult books and have donated thousands of books to the SDSU library and to local school districts; these reviews and other announcements are available at http://ncscsl.sdsu.edu. Information about the NCSCSL can be found at http://childlit.sdsu.edu.

Chinese Studies Institute
Li-Rong Lilly Cheng, Director

The Chinese Studies Institute coordinates and supports on-campus teaching and research related to the Chinese speaking world. The institute develops and fosters faculty and student exchange programs with universities and institutions of higher learning. Various cultural programs on the Chinese speaking world and activities on campus and in the community promote cultural awareness and understanding. The development of Chinese language publications, audiovisual materials, periodicals, newspapers, and other resources on campus fosters relationships between San Diego State University and the Chinese community, as well as nurtures friendship between the Chinese and American peoples. For more information, visit the website at http://www-rohan.sdsu.edu/~csi/index.htm.

Collections Management Program (CMP)
Jaime Lennox, Interim Director

The Collections Management Program (CMP) works toward the following goals: preserving and curating historic and prehistoric anthropological, archaeological, and ethnological collections; encouraging professional and student research with the collections; promoting the preservation of these resources in partnership with Native Americans and other ethnic groups; and advocating community involvement with the collections. It meets federal and state legislation regarding care of the collections, fosters an understanding of the value and importance of the collections, and provides advanced curation management and facilities for the care of over 900 collections and several hundred thousand artifacts. For more information on CMP and internship opportunities, visit the website at http://cmp.sdsu.edu.

Confucius Institute
Li-Rong Lilly Cheng, Managing Director

The Confucius Institute (CI) at San Diego State University (SDSU) was established in collaboration with the Confucius Institute Headquarters (Hanban), the executive body of the Chinese Language Council International, a non-governmental and non-profit organization affiliated with the Ministry of Education of China. Housed in the College of Arts and Letters, the purposes of the CI of SDSU are to strengthen educational cooperation between China and the United States and to promote development of Chinese language education at the primary, secondary, and tertiary levels as well as at the community colleges. The CI at SDSU focuses especially on teacher training by offering both on-site and online classes while utilizing the most advanced language teaching pedagogy and technology. The CI at SDSU has a partner institution in China — Xiamen University, a distinguished national research university.

In conjunction with the Chinese program in the Department of Linguistics and Asian/Middle Eastern Languages, as well as other relevant academic units at SDSU, the institute supports and promotes the following activities:
- A teaching-training service center;
- Teach Chinese language and provide Chinese language teaching resources;
- Train Chinese language instructors;
- Hold Chinese proficiency tests and tests for the certification of Chinese language teachers;
- Provide information and consultative services concerning China’s education, culture, economy, and so forth;
- Conduct language, trade mission, and cultural exchange activities;
- Conduct other activities in collaboration with Hanban and Xiamen University.

Institute of Druze Studies (IDS)
Samy Swayd, Director

The Institute of Druze Studies (IDS) is an academic non-profit organization dedicated to research and discourse on the Druzes and related topics. The Druzes are a Middle Eastern minority group that live predominantly in the mountainous regions of today’s Lebanon, Syria, Jordan, Israel, and with smaller numbers elsewhere around the world. More than 25,000 Druzes live in the United States with California as the main center of the American Druze Society (ADS). The Druze sect began in Cairo and has survived for almost one thousand years.

The IDS aims to 1) provide information on Druze history, society, and faith; 2) encourage research and studies on historical and contemporary Druze communities; and 3) promote academic discourse about other immigrant religious communities. The IDS pursues these objectives through an international multidisciplinary conference, an academic journal, and a newsletter. The IDS participates in professional conferences and provides guest lectures to interested organizations.

For more information, call the office at 619-594-1880 or the Department of Religious Studies at 619-594-5185, FAX 619-594-1004, or http://www.druzestudies.org.

Center for Earth Systems Analysis Research (CESAR)
Allen S. Hope, Piotr L. Jankowski, Douglas A. Stow, Co-Directors

The Stephen and Mary Birch Foundation Center for Earth Systems Analysis Research (CESAR) was founded in 1986 as a computer-based facility for geographic information science research and instruction that is administered by the Department of Geography. The purpose of the center is to apply state-of-the-art, geo-spatial technology in geographic information systems (GIS), global positioning systems (GPS), remote sensing, image processing, automated cartography, spatial statistics, and spatial modeling to problems with geographic dimensions. As such, a number of Geography Department faculty are affiliated with the center. Research conducted by CESAR is directed at both applied and fundamental problems in fields ranging from urban and regional planning to earth system science. This research includes computer-based map and image data processing and spatial simulation modeling, as well as field-based data collection. CESAR has extensive hardware, software, imaging systems, and field equipment resources in its four laboratories:
- (1) Richard Wright Spatial Analysis Laboratory, (2) Regional Analysis Laboratory (REGAL), (3) William Finch Remote Sensing Laboratory, and (4) Stephen and Mary Birch Foundation GIS Laboratory.

For more information about on-going research projects or services provided by CESAR, or for a demonstration of its capabilities, call 619-594-8042 or 619-594-5437 or dave@geography.sdsu.edu.
Institute for Ethics and Public Affairs  
Peter C. Atterton, Director

The Institute for Ethics and Public Affairs at San Diego State University seeks to promote critical thinking about moral issues that are often complex in nature. It aims both to be a resource to members of the campus community, the larger community of scholars, and the greater San Diego community who wish to pursue thoughtful discussion and research as a means of clarifying moral problems. It also aims to raise the profile of the moral dimensions of contemporary issues. The institute is housed in the Department of Philosophy, but seeks interdisciplinary discussion and collaboration since clarity on contemporary moral problems often involves both the application of normative theorizing and empirical investigation. The institute organizes and sponsors a variety of programs on applied and theoretical moral issues. Among these programs are colloquia, community outreach talks, lectures, and student essay contests. Visit the website at http://ethics.sdsu.edu for details.

Center for European Studies  
Veronica Shapovalov, Director

The Center for European Studies, through its associated faculty and students, is committed to the multidisciplinary study of Europe and its role in world problems in order to build transformative scientific theories and applications and technologies, and big data sources to analyze real-time data. Researchers integrate spatial science (GIS and GPS technologies), mobile applications and technologies, and big data sources to analyze real-world problems in order to build transformative scientific theories and computational models for understanding human dynamics. For more information regarding the Center for European Studies, contact Veronica Shapovalov in the Department of European Studies at 619-594-5111, 619-594-7147, or veronica.shapovalov@sdsu.edu.

Charles W. Hostler Institute on World Affairs  
Jonathan M. Graubart, Director

The Charles W. Hostler Institute on World Affairs plays a critical role in the educational mission of SDSU. It was founded in 1942 as the Institute on World Affairs to inform students, faculty, and the wider public on global affairs. The institute has provided the SDSU and greater San Diego communities with high level and spirited intellectual engagement on a rich diversity of international issues and controversies. Recent topics have included drone warfare and targeted killings, international war crime courts, Iran’s stance on nuclear weapons and its evolving relationship with Israel, and new challenges in U.S. foreign policy. The institute includes an upper-division political science course every spring. Recent themes of this course have been international law and global justice, moral responsibility in world affairs, and critical Israeli voices.

The institute prides itself on encouraging robust critical debate, including the airing of highly controversial themes under the operating motto of audiatur et altera pars (let the other side be heard). Speakers are drawn from all areas of global affairs, including international diplomacy, academia, national security, and protest politics. The institute is honored to bear the name of Charles W. Hostler, former U.S. Ambassador to Bahrain. Ambassador Hostler served his country with distinction and provided generous support in time and money to the institute and many other worthy causes. More information can be found at http://hostler.wa.sdsu.edu.

Center for Human Dynamics in the Mobile Age (HDMA)  
Ming-Hsiang Tsou, Director

The Center for Human Dynamics in the Mobile Age (HDMA) examines the transformation of innovative academic research into technological and practical software solutions for solving real world problems (such as disease outbreaks, disaster response and recovery, health disparities in cancer and obesity, drug abuse, and urban crime rates). Researchers integrate spatial science (GIS and GPS technologies), mobile applications and technologies, and big data sources to analyze real-world problems in order to build transformative scientific theories and computational models for understanding human dynamics. For more information, please visit http://humandynamics.sdsu.edu.

Center for Information Convergence and Strategy (CICS)  
André Skupin and Akshay Pottathil, Co-Directors

The Center for Information Convergence and Strategy (CICS), established in mid-2014, focuses on modern technology application in diverse domains at local, state, federal, tribal, and international levels. It supports research across related disciplines with an emphasis on data access, fusion, and analytics, social media solutions, strategic mapping, and systems integration and development. From visualization to predictive analytics, CICS leverages various information technologies to evaluate current trends and develop strategies based on dynamically evolving content.

To promote innovation through open collaboration, the center offers transparent interaction among government, industry, and academia by acting as a platform for transdisciplinary research and education efforts, with focus on data mining and advanced visual techniques, as well as building strategies and solutions for government and private industry. To orginally incubate innovation, CICS aims to catalyze and nurture partnerships and collaborations in strategic regions globally.

The center has a diverse group of faculty researchers and subject matter experts that deploy a range of methodologies, from machine learning and advanced visualization to data mining and applied approaches to subjects as diverse as disaster response, global security, threat reduction, business development, biomedicine, public health, and digital humanities.

For further information or to schedule a visit, see the website at http://cics.sdsu.edu. The CICS office is located in Storm Hall, Room 339.

Center for Interdisciplinary Studies of Young People, Environments, Society, and Space (YESS)  
Stuart C. Aitken, Director

Tom Herman, Managing Director

Fernando J. Bosco, Pascale J. Marcelli, Ramona L. Perez, P.J.E. (Jenny) Quintana, Shulumit N. Riblatt, Co-Directors

YESS is an interdisciplinary collective of academic and community interests that integrates multiple approaches to foster child and youth well-being. The mission of the center is to support research on children, environments, families, society, and space. It includes not only international scholarship and global perspectives on families and young people but also local community research initiatives in San Diego and Tijuana.

The geographical contexts within which young people live structure individual lives and provide connections to social and political formations. It is important to get beyond the problematization of “children,” “families,” and “communities” as categories so that we may find ways to account for the unique processes of identity formation and the relationships through which young people construct their lived spaces. Consequently, YESS supports research that is intent on raising new questions concerning the interdependence of children, caregivers, their communities and social and spatial structures.

The center focuses on local and international research, workshops, and conferences as funding allows. It is connected to international child research centers in Africa, Asia, Europe, and Latin America. YESS sponsors the international Routledge journal, Children’s Geographies: Advancing interdisciplinarity understanding of younger people’s lives. In addition to this international, global focus, ISYS supports research in San Diego and Tijuana that relates to children, families, and communities.

For information call 619-594-6498, or visit the website at http://geog.sdsu.edu/Research/Projects/ISYS/.

International Population Center (IPC)  
John R. Weeks, Director

The International Population Center (IPC) promotes applied demographic research and the provision of technical assistance and consulting, especially focusing on population issues and policy within the San Diego/Tijuana region, the U.S.-Mexico border, Africa, and the Middle East.

Although it is located in the Department of Geography, IPC is a multidisciplinary facility, linking center faculty from several departments on campus with centers associated with other organizations and universities in the San Diego region. Contact the center at 619-594-8040 or visit the website at http://geography.sdsu.edu/Research/Projects/IPC/pc2.html.
International Studies Education Project (ISTEP)
Emily M. Schell, Director

The International Studies Education Project (ISTEP) supports the twin SDSU priorities of community outreach and internationalization through the promotion of international studies education in our schools and community. Programs designed to improve teaching and learning at the pre-collegiate level are emphasized, with particular foci on the social sciences and humanities as they relate to international, cross-cultural and citizenship education within both the domestic American and wider global context.

ISTEP programs are multidisciplinary and collaborative in nature, involving partnerships with other SDSU academic departments, centers and institutes, as well as with other educational institutions and community groups. Programs include in-service teacher training and professional development workshops and institutes, curriculum development, student-focused programs, and partnerships with schools and districts. The ISTEP Instructional Resource Center is a "demonstration" collection of K-16 instructional materials in global issues, world areas and cultures, and cross-cultural education available to SDSU students and educators throughout San Diego County.

For more information, visit ISTEP’s website at http://istep.sdsu.edu.

International Technology and Trade Network (ITTN)
Marc Siegel, Director

The International Technology and Trade Network (ITTN), an institute of San Diego State University’s Center for International Business Education and Research (CIBER), is a collaborative offering of the College of Arts and Letters and the College of Business Administration. The objective of the ITTN is to promote methods for creating a stable economic environment for transnational business, trade, and research. The institute will seek ways to use business as a catalyst for regional peace and cross-border economic development. This effort will focus on networking together business assistance organizations, academic institutions, and research centers in regions of conflict and emerging economies. We will establish a virtual business assistance network that will take advantage of the latest Internet, information, and telecommunications technologies to provide business-to-business outreach and the annual visiting Israeli professorship. To learn more, visit the website http://latinamericanstudies.sdsu.edu.

Center for Islamic and Arabic Studies
Ahmet T. Kuru, Director

The Center for Islamic and Arabic Studies administers the minor in Islamic and Arabic Studies, and the major in Social Science: Emphasis on Islamic and Arabic Studies. It is committed to supporting teaching and research on the lives of Muslim and Arabic-speaking peoples past and present. The center’s study of the Islamic world focuses on the global context in which Islam emerged historically, the cultures and societies that it helped shape, most especially in Eurasia and Africa, and the current global condition in which people in the Islamic world situate themselves today. It sees the Arabic language as the cultural medium for diverse ways of life that are of world historical significance.

The center is multi-disciplinary and includes in its scope of study the Arabic and Persian languages and literatures; the history of Muslim and Arabic-speaking peoples; political, economic, and social dynamics of contemporary societies; art and architecture; social, political, religious, and philosophic thought; and the experience of Muslim communities in the United States and around the world. For more information, visit the website at http://www.cias.sdsu.edu.

Language Acquisition Resource Center (LARC)
National Language Training Center (LTC)
Mary Ann Lymang, Manager, Director, LARC and LTC
Chris Brown, Managing Director, LARC and LTC
Trevor Shanklin, LARC Laboratory Director

SDSU created the Language Acquisition Resource Center (LARC) in 1989 to teach foreign languages more effectively using technology. From 1990-2014, LARC served as a national Language Resource Center (LRC), with funding from the U.S. Department of Education. Since 2011, LARC serves as a national Language Training Center to train military personnel in critical world languages and cultures. LARC laboratories and facilities serve area K-16 teachers, enabling them to do research in second language acquisition and to assess language proficiency. LARC staff and faculty provide professional development experiences for teachers focused on enhancing cross-cultural competence and developing language competence, particularly in less commonly-taught languages. Students and teachers use the LARC laboratories to explore advanced technologies and to enhance language learning experiences. SDSU’s LARC has one of the nation’s finest multimedia collections and language laboratory facilities, with digitizing and desktop video conferencing capabilities, a research library, smart classrooms, and faculty offices. The laboratories also serve foreign language students in several departments (European Studies, Linguistics and Asian/Middle Eastern Languages, and Spanish and Portuguese Languages and Literatures).

LARC has enhanced its infrastructure and Internet capabilities in order to better explore and develop models of distributed and distance learning, as well as digital humanities materials. These models reflect the changing demographics of SDSU students and require new curricula to accommodate evolving student learning preferences. LARC’s archives house learning objects, authentic materials, lesson plans, and courses and allow for online contributions from national and international collaborators.

LARC hosts companion initiatives, STARTALK Teacher and Student summer programs, focusing on youth and critical languages; ProjectGO (Project Global Officers), whose major purpose is to create opportunities for ROTC students to be learners of Arabic, Persian, Russian, and other world languages who can reach advanced levels of proficiency; and SAILN (the Southern Area International Language Network), offers professional development to world language teachers in several counties of Southern California.

Visit the website http://larcnet.sdsu.edu for more information.

Center for Latin American Studies
Ramona L. Pérez, Director

The Center for Latin American Studies supports teaching and research related to Latin America. It has primary responsibility for the administration of the Latin American studies undergraduate and graduate degrees. It also participates in joint degree programs in international business, business administration, and public health. The center administers programs that are interdisciplinary, drawing on the expertise of outstanding Latin Americanist faculty from the following departments and schools: Anthropology; Art and Design; English and Comparative Literature; Economics; Geography; History; Political Science; Public Affairs; Public Health; Social Work; Sociology; Spanish and Portuguese Languages and Literatures; Women’s Studies; and the College of Business Administration. In addition, the center is involved with the development of innovative methods of instruction in Mixtec, Spanish, and Zapotec; the provision of information and in-service training programs for elementary and secondary school teachers; and the provision of services for the general public through the sponsorship of conferences, workshops, lectures, and films. The center also assists in the development of the university library’s Latin American holdings. The center has cooperative agreements for research, faculty, and student exchanges with several Latin American universities, particularly in Mexico, Chile, and Costa Rica.

For additional information, visit the website at http://latinamericanstudies.sdsu.edu.

Lipinsky Institute
Risa Levitt Kohn, Director

The Lipinsky Institute supports the advancement for community outreach and the annual visiting Israeli professorship. To learn more, visit the website at http://jewishstudies.sdsu.edu.

College of Arts and Letters
Center for Qualitative Research
Norma Ojeda, Interim Director

The Center for Qualitative Research, located within the Department of Sociology at San Diego State University, promotes the use of qualitative methods in the quest to understand and explain important aspects of social organization. Qualitative researchers utilize a wide range of methods to gather data including participant observation, in-depth interviews, content analysis, focus groups, photography, film, and videography to accomplish a holistic study of social meanings, social relations, and social institutions. The primary objectives of the center are to:

- Create and sustain an interdisciplinary community of scholars whose principal research focus is qualitative;
- Organize and facilitate workshops and colloquia focusing on the key issues facing qualitative researchers such as methodological, epistemological, and ethical issues;
- Provide a forum for the dissemination of the products of qualitative research across all disciplines.

For more information, contact the center at 619-594-4826.

Institute for Regional Studies of the Californias (IRSC)
Paul Ganster, Director

The Institute for Regional Studies of the Californias (IRSC) provides San Diego State University with a forum for the investigation, discussion, and dissemination of information about the United States-Mexican border region. Although the institute focuses on the border region of California, Baja California, the United States, and Mexico, it is also concerned with important issues of border regions elsewhere in the world.

Created in 1983, the institute has undertaken multidisciplinary applied research projects on important regional concerns including transborder environmental issues, policy perspectives of the California-Mexico relationship, quality of life, and sustainable development. IRSC also plays an active role in Mexico-related professional organizations and is frequently consulted on transborder issues by the media, nongovernmental organizations, the public sector, and other border stakeholders.

Other institute activities include conducting binational symposia; improving communication between public and private sector representatives on both sides of the border; serving as a clearinghouse for information on transborder events, issues, and institutions; and encouraging the effective use of educational resources among the region's universities. The institute serves as a major link between SDSU and Mexican universities and institutions.

IRSC has an ongoing publications program that includes books, monographs, and shorter items. Many titles are co-published with SDSU Press.

IRSC conducts applied research projects on border environmental issues and policy, regional economic issues, and transborder planning issues. For more information, visit the website at http://irsc.sdsu.edu.

South Coastal Information Center (SCIC)
Seth W. Mallios, Director
Jaime Lennox, Coordinator

The South Coastal Information Center (SCIC) promotes and ensures the preservation of historic resources in San Diego County through archaeological research, archival maintenance, and education. As the state-sponsored archaeological archive for the region, SCIC is responsible for coordinating all written and spatial information for over 50,000 archaeological sites. SCIC specializes in digital conversion and analysis and has a fully integrated archaeological Geographic Information System (GIS). Student internships are available with emphasis on the California Historical Resources Information System (CHRIS) and GIS. For more information, visit the website at http://scic.org.

Watershed Science Institute (WSI)
Trent W. Biggs, Director

The Watershed Science Institute (WSI) promotes collaboration among SDSU researchers and communities involved in the management and regulation of land and water resources. The objective of WSI is to improve the integration of science, policy, and management of watersheds by aligning research questions with critical management needs. The regional focus is on Southern California, including San Diego County, Imperial Valley, and the US-Mexico Border region, all of which face critical challenges related to water resources and water quality, drinking water supply shortages, climate change, water quality deterioration, impaired surface water bodies, soil erosion, and coastal contamination. More information can be found at http://watershed.sdsu.edu.

Social Science Research Laboratory (SSRL)
Cathy Cirina-Chiu, Managing Director

Established in 1974, the Social Science Research Laboratory (SSRL) was founded to support social research at San Diego State University and in the San Diego community. SSRL currently provides survey research and program evaluation services to university faculty and administrators, local government agencies, and non-profit organizations. SSRL has completed program evaluations in a variety of program areas, including youth violence prevention, LGBT health, substance abuse, and HIV prevention. Services available to clients include program evaluation, focus groups, telephone, web, mail, intercept, multi-mode and multi-language surveys, research design, and data analysis.

SSRL also provides graduate-level training in survey research methodology and practices through its Internship in Applied Survey Research and Program Evaluation. The goal of the internship is to provide eligible graduate students with field experience in survey research and program evaluation and an opportunity to apply the information and skills learned in their graduate program curriculum in a real-world social research setting. More information can be found at http://ssrl.sdsu.edu.

The Watershed Science Institute (WSI) promotes collaboration among SDSU researchers and communities involved in the management and regulation of land and water resources. The objective of WSI is to improve the integration of science, policy, and management of watersheds by aligning research questions with critical management needs. The regional focus is on Southern California, including San Diego County, Imperial Valley, and the US-Mexico Border region, all of which face critical challenges related to water resources and water quality, drinking water supply shortages, climate change, water quality deterioration, impaired surface water bodies, soil erosion, and coastal contamination. More information can be found at http://watershed.sdsu.edu.

Social Science Research Laboratory (SSRL)
Cathy Cirina-Chiu, Managing Director

Established in 1974, the Social Science Research Laboratory (SSRL) was founded to support social research at San Diego State University and in the San Diego community. SSRL currently provides survey research and program evaluation services to university faculty and administrators, local government agencies, and non-profit organizations. SSRL has completed program evaluations in a variety of program areas, including youth violence prevention, LGBT health, substance abuse, and HIV prevention. Services available to clients include program evaluation, focus groups, telephone, web, mail, intercept, multi-mode and multi-language surveys, research design, and data analysis.

SSRL also provides graduate-level training in survey research methodology and practices through its Internship in Applied Survey Research and Program Evaluation. The goal of the internship is to provide eligible graduate students with field experience in survey research and program evaluation and an opportunity to apply the information and skills learned in their graduate program curriculum in a real-world social research setting. More information can be found at http://ssrl.sdsu.edu.
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. Visit the College of Business Administration website at http://www.sdsu.edu/bac.

Administration

Dean: J. Dennis Cradit
Associate Dean for Academic Affairs: David P. Ely
Assistant Dean for Student Affairs: Tita L. Gray
Director of Assessment: Kathleen A. Krantier
Director of Graduate Programs: Nikhil P. Varaiya
Director of Undergraduate Programs: Gary M. Grudnitski
Director of Graduate Career Management Center: Beverly K. Bracker
Director of Resource Management: Davette Kawachi

Mission of the College of Business Administration

The mission of the College of Business Administration at SDSU is to maintain a challenging learning environment that fosters excellence in business education and develops business professionals through innovative programs, applied learning, research, and collaboration with alumni and the local business community. Our programs reflect the international, entrepreneurial, hi-tech, and tourism character of our region and provide opportunities for students and faculty to integrate their academic work with experience in the San Diego community.

General Information

All undergraduate and graduate programs have enjoyed continuous accreditation since their points of first application. In addition to a commitment to maintain a high quality, accredited program, the College has the following objectives: (1) academic programs that prepare students with the knowledge and skills needed to contribute to business and society as managers and professionals; (2) cooperation and mutual responsibility among faculty, staff, and students for learning and research; (3) opportunities for students to integrate their academic work with experience in the community; (4) faculty who are active as teachers and scholars and who share their professional expertise with students and the community; (5) staff members who maintain and improve their technical and interpersonal skills in order to contribute to the development and success of College programs; (6) programs that reflect the international and entrepreneurial character of our region; (7) physical and technical facilities that support program requirements; and (8) an environment that offers opportunities for students, faculty, and staff of diverse backgrounds to pursue their educational and career goals.

The College of Business Administration at SDSU aspires to be the educational backbone of the San Diego business community. To credibly serve one of the most dynamic regions in the nation and the world, we must achieve high national rankings in both undergraduate and graduate education and earn a national and international reputation for excellence in research. These objectives require us to understand and proactively adapt to the global and technological forces and the environmental, ethical and resource imperatives that are shaping the 21st century.

Curricula Offered

Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Business Administration.

Master’s Degrees

Accountancy (M.S.), Business Administration (M.S.), Business Administration (M.B.A., M.B.A./J.D.; jointly with the California Western School of Law), Information Systems (M.S.), Latin American Studies (M.B.A.,/M.A.; jointly with the College of Arts and Letters).

Bachelor’s Degrees

Accounting (B.S.), Business Administration (B.S.), Finance (B.S.), Financial Services (B.S.), Information Systems (B.S.), International Business (B.A.; jointly with the College of Arts and Letters), Management (B.S.), Marketing (B.S.), Real Estate (B.S.).

Minors

Accounting, Business Administration, Entrepreneurship, Finance, Information Systems, Management, Marketing, Real Estate.

Certificate Programs

Accounting, Business Administration (available at Imperial Valley Campus only), Executive Financial Planner, Personal Financial Planning.

Research Centers and Institutes

Center for Accounting in the Public Interest

Steven L. Gill, Interim Director

The Center for Accounting in the Public Interest (CAPI) was established in 2006 and received its first grant from the President’s Leadership Fund. The center provides online resources and communication through the website at http://capi.sdsu.edu.

Corporate Governance Institute (CGI)

Lori Verstegen Ryan, Director

The Corporate Governance Institute (CGI) is an education and research center dedicated to the study and application of responsible corporate governance principles worldwide. Founded in 1998, the mission of the CGI is to enhance the skills of corporate directors, investors, and senior executives by developing innovative curriculum, fostering cutting-edge research, and offering influential practitioner education. CGI programs focus on identifying and applying ethical corporate governance practices and are guided by the principle that corporate leaders have a primary duty to ensure the financial viability of the organizations that they manage.

CGI was a first-mover in the development and delivery of a dedicated corporate governance course to MBA students in 1999, followed by a required corporate governance course for all Executive MBA students in 2007. For more than a decade, CGI has held dedicated symposia and annual research events for an international network of corporate governance scholars. The institute also offers lectures and panels for students, faculty, and the public, featuring such prestigious corporate executives, directors, and investors as the CEOs of Home Depot and Allergan Inc.; chairman of the boards of CVS Caremark, Hewlett-Packard, Allergan Inc., and Chesapeake Energy; and Relational Investors founders David Batchelder and Ralph Whitworth. For more information concerning CGI’s programs, e-mail CGI@SDSU.edu, call 619-594-5314, or visit http://cbaweb.sdsu.edu/cgi.

Center for Accounting in the Public Interest

Steven L. Gill, Interim Director

The Center for Accounting in the Public Interest (CAPI) was established in 2006 and received its first grant from the President’s Leadership Fund. The center provides online resources and communication through the website at http://capi.sdsu.edu.

Corporate Governance Institute (CGI)

Lori Verstegen Ryan, Director

The Corporate Governance Institute (CGI) is an education and research center dedicated to the study and application of responsible corporate governance principles worldwide. Founded in 1998, the mission of the CGI is to enhance the skills of corporate directors, investors, and senior executives by developing innovative curriculum, fostering cutting-edge research, and offering influential practitioner education. CGI programs focus on identifying and applying ethical corporate governance practices and are guided by the principle that corporate leaders have a primary duty to ensure the financial viability of the organizations that they manage.

CGI was a first-mover in the development and delivery of a dedicated corporate governance course to MBA students in 1999, followed by a required corporate governance course for all Executive MBA students in 2007. For more than a decade, CGI has held dedicated symposia and annual research events for an international network of corporate governance scholars. The institute also offers lectures and panels for students, faculty, and the public, featuring such prestigious corporate executives, directors, and investors as the CEOs of Home Depot and Allergan Inc.; chairman of the boards of CVS Caremark, Hewlett-Packard, Allergan Inc., and Chesapeake Energy; and Relational Investors founders David Batchelder and Ralph Whitworth. For more information concerning CGI’s programs, e-mail CGI@SDSU.edu, call 619-594-5314, or visit http://cbaweb.sdsu.edu/cgi.
The Lavin Center focuses its program development on all areas of the entrepreneurial process including: investor financing, product innovation, management of technology, managing organizational growth, succession planning, leadership, talent management, branding and positioning, social media marketing, and estate planning.

The Lavin Center sponsors and creates a myriad of programs and events at San Diego State University aimed at the campus population:

- Launchnets, featuring an entrepreneur panel and 50 startups on the campus hiring students;
- LeanModel Competition, start-up global business model university competition;
- California Entrepreneurship Educators Conference, bringing thought leaders together to further entrepreneurship;
- QUALCOMM Social Entrepreneur Internship program; students helping non-profits;
- Venture Capital Investment Competition, preparing students for venture based activities;
- WebCompass, an undergraduate internship building websites for local companies;
- L. Robert Payne Distinguished Entrepreneur Lecture Series;
- VentureStart Competition, on campus business model competition for all SDSU students;
- Lavin Entrepreneurs, a two-year undergraduate cohort with mentoring by entrepreneurs;
- Entrepreneur Day, yearly campus wide celebration of SDSU student entrepreneurs;
- Entrepreneurs Study Abroad; melding courses, students, and entrepreneurs in international settings.

For further information, contact the Lavin Entrepreneurship Center at the Gateway Center, Suite 1502, 619-594-2781, and at http://lavincenter.sdsu.edu.
The center is involved in the development of a national web-based research database and a national graduate student financial planning competition. The financial planning web-based bibliography is aimed at three groups of users: journalists, researchers, and students. Summaries of recent research in financial planning concepts is available for journalists to help disseminate research findings to the popular press. Researchers can find background articles listed by financial planning topical areas. Faculty can determine state of the art research on various topics by sharing research interests and/or discussion drafts. And nationally, students can access research to aid in their academic understanding of financial planning issues.

The center can be reached at mlachanc@mail.sdsu.edu.

The Corky McMillin Center for Real Estate (CMCRE)  
Mehdi Salehisadeh, Interim Director  
Melissa Abeyta, Center Coordinator

The Corky McMillin Center for Real Estate, part of the College of Business Administration at SDSU, has a history, tradition, and commitment to teaching real estate. The program began in 1958 and continues to produce real estate graduates who are ready on day one. In order to contribute to the education of the next generation of real estate leaders, the McMillin family, along with HG Fenton, Cassidy Turley, and Cornerstone Communities, generously decided to give back and support real estate education by forming the Corky McMillin Center for Real Estate. The center provides students with excellent opportunities to engage with with real estate professionals and participate in supplemental education sessions such as Argus training, CoStar, Excel modeling, and Yardi. For more information, please contact the center at realestate@mail.sdsu.edu.

Real Estate and Land Use Institute (RELUI)  
Andrew G. Do, Director

Established in 1983, the Real Estate and Land Use Institute (RELUI) is the first systemwide research-oriented institute of its kind in the 23-campus California State University system. The San Diego regional office of RELUI is located in the College of Business Administration.

CSU-RELUI's mission is to promote education and research in real estate and land use-related areas. In support of this mission, the RELUI seeks to support, coordinate, and manage systemwide and intercampus research activities, to maintain liaisons with government and private agencies with an interest in public policy, and to provide scholarships and grants to qualified SDSU students.

At San Diego State University, the RELUI regional director is appointed by the campus president to serve as a member of the CSU Advisory Board of the California Real Estate Endowment Fund. For more information, contact Dr. Andrew Do at 619-594-5324, andrew.do@sdsu.edu.
College of Education

Administration
Dean: Joseph F. Johnson
Associate Dean: Nancy Farnan (Interim)
Assistant Dean for Student Affairs: Patricia Lozada-Santone
Assistant Dean for Special Projects: Tanis K. Starck
Doctoral Programs: Joanne Lobato, Ian R. Pumpian,
                     Rafaela M. Santa Cruz, J. Luke Wood
Manager of Budget and Analysis: Julie A. White
Manager of Office of Student Services: Lisa McCully
Operations and Support Services Analyst: Elsa Tapia

General Information
The College of Education’s mission is to prepare effective professionals for a variety of societal service delivery and leadership roles across a range of settings including schools, postsecondary institutions, social service agencies, and vocational rehabilitation organizations. The college contributes to the knowledge base in both educational theory and practice through professional inquiry and scholarship. The college engages in strategic partnerships with the field of practice to improve client outcomes, to increase institutional effectiveness, and to promote social justice.

The College of Education is organized into seven academic units including the School of Teacher Education and the following departments: Administration, Rehabilitation and Postsecondary Education; Child and Family Development; Counseling and School Psychology; Dual Language and English Learner Education; Educational Leadership; and Special Education. The Master of Arts degree in education is offered in ten academic areas of education. The Master of Science degree is offered in three additional academic areas. The Educational Specialist degree is offered in school psychology. A Ph.D. program in education is offered jointly with Claremont Graduate University. This unique program features a social justice emphasis. A Ph.D. program in mathematics and science education is offered jointly with the College of Sciences and the University of California, San Diego. An Ed.D. program is offered in Educational Leadership with concentrations in PreK-12 and Community College/Postsecondary Leadership. Approved teaching credential programs are offered for the multiple subject credential and the single subject credential, as well as for a number of specialist and service credentials.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Education.

Doctoral Programs
Ph.D. in Education
Ph.D. in Mathematics and Science Education
Ed.D. in Educational Leadership
Concentration in PreK-12 Leadership
Concentration in Community College/Postsecondary Leadership
Educational Specialist
Ed.S. in School Psychology (M.A./Ed.S.)
Master’s Degrees
Child Development (M.S.), Counseling (M.S.), Education (M.A., M.A.T.), Rehabilitation Counseling (M.S.).
Bachelor’s Degrees
Child Development (B.S.), Liberal Studies (B.A.)
Minors
Child Development, Counseling and Social Change, Leadership Development

Teaching and Service Credentials*

<table>
<thead>
<tr>
<th>Credential Program</th>
<th>School Service Authorized</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Multiple Subject: part-time, full-time, and internship programs.</td>
<td>Teach in self-contained classrooms and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD), kindergarten through sixth grade.</td>
</tr>
<tr>
<td>2. Multiple Subject 2042 Credential. Emphasis: Spanish, Arabic, Filipino, Japanese, or Mandarin.</td>
<td>Teach in self-contained kindergarten through sixth grade classrooms and in primary language of emphasis and English, English Language Development (ELD), and Specially Designed Academic Instruction in English (SDAIE).</td>
</tr>
<tr>
<td>3. Single Subject.</td>
<td>Teach single subject area grades 6 through 12 and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD).</td>
</tr>
<tr>
<td>4. Single Subject Bilingual 2042 Bilingual Credential. Emphasis: Spanish.</td>
<td>Teach in single subject classrooms grades 6 through 12 in primary language of emphasis and English in kindergarten through 12th grade and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD).</td>
</tr>
</tbody>
</table>

* Standards and authorizations are being reviewed and revised by the California Commission on Teacher Credentialing.

Specialist Credentials
Reading and Literacy Leadership
Special Education:
- Early Childhood Special Education, Preliminary and Clear; Internship Credential
- Mild/Moderate Disabilities, Preliminary and Clear; Internship Credential
- Moderate/Severe Disabilities, Preliminary and Clear; Internship Credential

Service Credentials
Administrative Services; Internship
Clinical – Rehabilitative Services
(School of Speech, Language, and Hearing Sciences)
Pupil Personnel Services:
Child Welfare and Attendance (School of Social Work)
School Counseling (Department of Counseling and School Psychology)
School Psychology (Department of Counseling and School Psychology); Internship Credential
School Social Work (School of Social Work)
School Nurse Services (School of Nursing)
Certificate Programs
Behavior Analysis, Cognitive Disabilities, Community College Teaching, Bilingual (Spanish) Special Education, Developing Gifted Potential, Distance Education, Dual Language for Academic Literacy, Early Care and Education, Early Childhood-Socio-Emotional and Behavior Regulation Intervention Specialist, Early Childhood Special Education, Educational Facility Planning (offered through College of Extended Studies), English Language Development for Academic Literacy, Family Life Education, Institutional Research, Planning, and Assessment, Instructional Design, Instructional Technology, Mathematics Specialist, Mental Health Recovery and Trauma Informed Care, Psychiatric Rehabilitation, Reading and Literacy Added Authorization, Rehabilitation Administration, Rehabilitation Counseling, Supported Employment and Transition Specialist, Workforce Education and Lifelong Learning.

Research Centers and Institutes

Center for Counseling and School Psychology
Jan Ewing, Director

The Center for Counseling and School Psychology is a unit within the College of Education designed to provide support for activities such as (1) securing and administering grants and other support for research and development in counseling and school psychology, (2) encouraging cooperation with faculty members from other relevant disciplines such as anthropology, economics, psychology, social work, sociology, and Counseling and Psychological Services, and (3) conducting programs or rendering services designed to promote counseling and school psychology at San Diego State University. The center is administered by the Department of Counseling and School Psychology; fiscal matters are coordinated through the San Diego State University Foundation. For more information, visit the website at http://www.psychology.sdsu.edu/advising/counseling%20psychology.htm.

Center for Equity and Biliteracy Education Research (CEBER)
Cristina Alfaro
Karen Gadieno-Kaplan
Alberto M. Ochoa, Co-Directors

The Center for Equity and Biliteracy Education Research (CEBER) examines structural, social, and linguistic conditions that hinder or promote the advancement of democratic schooling and educational social justice for all students. CEBER aims to bring together scholars and education and community leaders to assist in the advancement of knowledge regarding biliteracy and equity issues. Six components guide the work of CEBER: professional development and biliteracy teacher education, equity and biliteracy research on democratic schooling, international professional development of school personnel, biliteracy capacity from kindergarten to higher education, parental leadership in biliteracy, and dissemination of educational equity and biliteracy research.

Interwork Institute
Caren L. Sax
Marilee J. Bresciani Ludvik, Co-Directors

Interwork Institute's efforts focus on promoting the integration of all individuals, including those with disabilities, into all aspects of education, work, family, and community life. The institute conducts research, training, and education using a variety of strategies including distance-learning technologies. Current efforts include universal design in all aspects of our community. Educational and research efforts involve organizations and individuals in all states, tribal communities, the Pacific Basin, Asia, Mexico, South America, and Europe. Faculty and staff associated with the institute are uniquely prepared to promote the meaningful participation and productivity of each member of the community.

The institute has the following six centers:

- The Center for Educational Leadership, Innovation, and Policy examines issues that affect policies and practices of educational institutions, including their implications for leadership, planning, innovation, and organizational development. The center engages in research, development, and dissemination activities that focus on a few critical educational issues. As a result of its policy analysis and research, the center develops plans and programs which enhance organizational capacity to respond to the challenges and opportunities and which lead to the improvement of practice.
- The Minority Male Community College Collaborative (M2C3) was established with a grant from the SDSU President’s Leadership Fund. The goal is to partner with community colleges across the U.S. to enhance access, achievement, and success among minority male community college students. M2C3’s research and practice agenda prioritizes men who have been traditionally underrepresented and undeserved in postsecondary education.
- The Center for Pacific Studies (CPS) provides research, training, and technical assistance services in partnership with institutions of higher education, government agencies, and nonprofit organizations in the following Pacific Island jurisdictions: American Samoa, Republic of the Marshall Islands, Federated States of Micronesia, Territory of Guam, Commonwealth of the Northern Marianas Islands, Republic of Palau, and the State of Hawaii.
- Circle for American Indian Rehabilitation (CAIR) is devoted to the continuing education, training, and technical assistance needs for programs funded through American Indian Rehabilitation Service Projects (Section 121 of the Rehabilitation Act).
- The Collaborative Distance Learning (CDL) provides the technology and instructional design support for all Department and Interwork activities. This has been in operation since 1993 when initial funding was received from the US Department of Education.
- The Exceptional Family Resource Center (EFRC) was initially developed under the Department of Special Education. It was transferred to the Interwork Institute in 2006. They have been serving individuals and families of children with disabilities and the professionals who assist them throughout San Diego and Imperial Counties since 1990.

The Interwork Institute's facilities are located at 6367 Alvarado Blvd., Suite 200, San Diego, CA 92105. For more information, visit the website at http://interwork.sdsu.edu.

Center for Teaching Critical Thinking and Creativity
Luke S. Duesbery, Director

The Center for Teaching Critical Thinking and Creativity (CTCTC) advances performance and productivity in diverse communities by enhancing critical and creative thinking in schools. The center collaborates with teachers to develop and evaluate applications of research on critical and creative thinking applied to rigorous content and supported by appropriate technologies. CTCTC supports teachers’ continued development of their own expertise while taking advantage of their knowledge, skills, and experience in assessing effects on students' critical thinking, creative productivity, and academic performance.

San Diego State University Literacy Center
Pamela J. Ross, Director

The SDSU Literacy Center supports collaborative partnerships that serve a variety of diverse literacy needs in our community including assessment and tutoring in reading and writing for children, adolescents, and adults; workshops for parents to promote family literacy; professional education for teachers through coursework and institutes; and, research to inform teaching practice and effect systemic change in literacy education. The center houses the Community Reading Clinic. Credentialed teachers enrolled in graduate reading, Reading and Literacy Added Authorization, and Reading and Literacy Leadership Specialist credential programs, as well as professional staff, conduct tutoring and assessments. Professional development for reading recovery teacher leaders occurs at the center, and institutes are planned for reading recovery and elementary teachers in the community. Literacy center faculty members engage in research on effective instruction in reading and writing, teacher practices, and early intervention. The SDSU Literacy Center is located in City Heights in the Dede Alpert Center for Community Engagement, San Diego State University. 4283 El Cajon Blvd., Suite 200, San Diego, CA 92105. For more information, visit http://edweb.sdsu.edu/literacy/.
National Center for Urban School Transformation (NCUST)
Joseph F. Johnson, Executive Director

The National Center for Urban School Transformation (NCUST) helps school districts transform urban schools into places where all students achieve academic proficiency, evidence a love of learning, and graduate prepared to succeed in post-secondary education, the workplace, and their communities. The center pursues this mission through the following strategies:

- **Strategy 1:** Identify, celebrate, and study urban schools and districts that are transforming teaching and learning, as evidenced by excellent learning results for all students;
- **Strategy 2:** Engage in focused, long-term partnerships that support urban school districts as they endeavor to create model, high-performing schools;
- **Strategy 3:** Disseminate useful information about effective strategies to transform urban schools.

NCUST staff members develop articles, reports, book chapters, and books that feature information learned through both Strategies 1 and 2. The center supports SDSU doctoral students in educational leadership and SDSU faculty as they pursue research designed to deepen the knowledge base concerning high-performing urban schools. The NCUST website (http://www.ncust.org) is a nationally known source of information about effective strategies for transforming urban schools.

**Pre-College Institute (PCI)**
Cynthia D. Park, Executive Director

The SDSU Pre-College Institute (PCI) promotes college access and completion for underserved students, implements innovative programs to enhance excellence in teaching and learning in multicultural settings, and studies their outcomes. Founded in 1983, PCI provides an invaluable service to our communities’ multicultural low-income, underrepresented, and underserved students. The faculty and staff of PCI believe that students can achieve their potential by enrolling in and completing a postsecondary program of their choice. Through multiple federally funded grants, our students receive academic advising, mentoring, personal and financial counseling, personalized college preparation, summer supplemental instruction, and tutorial assistance throughout their high school career. The institute, operating from the university’s historic strength in teacher education and its proximity to Mexico, works closely with parents, principals, school counselors, teachers, and SDSU undergraduates to decrease the achievement gap between high- and low-performing schools. The institute supports continuous growth of its faculty and staff through a systematic professional development program.

The institute also offers services through its partnerships with the City Heights Educational Collaborative, the Division of Undergraduate Studies, Office of Financial Aid and Scholarships, and the Colleges of Sciences and Health and Human Services. The Pathways Office, through a partnership with PCI, the College of Education, and the Office of Financial Aid and Scholarships, provides current SDSU students with a service-learning opportunity to work as tutors at our partner school sites to provide in-class and afterschool tutoring. Tutors enroll in Education 201 and/or Teacher Education 362. Many of our tutors are interested in pursuing a career in teaching or education.

The Pathways Office tutors are near-peer leaders and often serve as mentors to the students they tutor. The office recruits and trains approximately 120 volunteer and work-study eligible students per academic year. America Counts tutors work with middle and high school students on mathematics and science. America Reads tutors promote early literacy for kindergarten through third grade. All tutors attend tutor training and participate in monthly professional development seminars.

For more information, please access our website at http://peci.sdsu.edu/education/pici.

**Center for Social Equity Technical Assistance**
Alberto M. Ochoa, Director

The center conducts training and research on issues of social equity and bilingual/multicultural policy, and provides technical assistance to districts throughout southern California. The center conducts research in public equity and school finance. The center houses projects funded by federal, state, and private sources. Current projects include the Parent Leadership and the Social Equity project.

The center functions within the SDSU Department of Dual Language and English Learner Education.

Center for the Study of International Education
Sarah Maheronnaghsh, Co-Directors

The Center for the Study of International Education is a unit of the College of Education. It promotes faculty and graduate student research, explores study abroad and exchange possibilities for faculty and students, and disseminates information about international education to interested persons in the San Diego area. It also seeks to complement regular course offerings through sponsorship of lectures, conferences, and the development of bibliographic resources.

The center seeks to foster not only a network of interested faculty within the College of Education, but also encourages faculty involvement from other colleges on campus as well as from other organizations and universities in the San Diego area.

**Center for Excellence in School Counseling and Leadership (CESCaL)**
Patricia A. Hatch, Director

The Center for Excellence in School Counseling and Leadership (CESCaL) seeks to educate, colligate, deepen understanding of, and improve partnerships between school counselors and administrative teams, graduate programs, and professional associations. The mission of CESCaL is to promote excellence in the field of school counseling and to assist school counselors, and their site and central office administrators, as they design, implement, and evaluate their school counseling programs. CESCaL provides training and consultation from state and national leaders in school counseling and administration with experience in implementing evidence-based practices and the ASCA National Model® for school counseling programs. CESCaL seeks to resolve critical issues that impede the operational efficiency, institutional legitimacy, and political social capital within the profession of school counseling. The center’s website at http://www.cascacl.org disseminates exemplars for educator use as a reference tool for school counselor educators, and administrators who supervise school counselors.

**Center for Family, School, and Community Engagement**
Jeana Preston, Director

The Center for Family, School, and Community Engagement was established to link the university to the educational pathways of children from “cradle through college.” The center’s mission is to build the capacity of families, educators, and community partners to advance the education of children together by providing (1) platforms for engaging in collaborative problem solving; (2) leadership development for parents and educators to work together; and (3) through new research that shines a light on partnership practices to support the healthy development and school success of children. Improving educational outcomes for children in our communities is the shared responsibility of families, educators from preschool through the college years (P-16), and their communities. The center promotes partnership approaches that engage all stakeholders to advance practical solutions and actions to ensure healthy development and academic success for all children across the continuum from birth, through each level of schooling, college, and career.

The California Parent Center (CPC) is located within the Center for Family, School, and Community Engagement, under the direction of the Department of Child and Family Development in the College of Education. CPC functions as a statewide technical assistance center for school-family-community partnerships focused on assisting educators and parent leaders at preschool, elementary, and secondary levels to work in partnership to improve academic outcomes for students. CPC works directly with school districts to implement achievement-focused family, school, and community partnerships as a key strategy for low-performing schools. CPC works in consultation with the California Department of Education Title I Office.

For additional information, contact Jeana Preston, Director, California Parent Center at 619-594-4756 or visit the website at http://parent.sdsu.edu.
Administration
Dean: Morteza M. Mehrabadi
Associate Dean:
Assistant Dean for Student Affairs: Theresa M. Garcia
Director of Doctoral Programs: Eugene A. Olevsky

General Information
The College of Engineering was established as a distinct unit of the university in 1958, although first courses named “Engineering” appeared in the 1922-23 catalog. The 1942-43 catalog was the first to announce the establishment of a “General Engineering” program leading to the Bachelor of Arts degree. The college is now organized into the Departments of Aerospace Engineering, Civil, Construction, and Environmental Engineering, Electrical and Computer Engineering, and Mechanical Engineering.

At the undergraduate level, the College of Engineering prescribes certain patterns of its courses, combined with those of other academic divisions of the university, leading to the Bachelor of Science degree in seven specific major fields of engineering. At the graduate level, the college offers the Master of Science degree in four of these fields and in bioengineering, a Master of Engineering degree, and doctoral degrees in bioengineering, electrical and computer engineering, mechanical and aerospace engineering, and structural engineering jointly with the University of California, San Diego.

Consistent with the role and mission of the California State University system, the faculty of the College of Engineering at San Diego State University believes its mission is to provide students with a quality undergraduate and graduate engineering education; to prepare graduates for professional careers and life-long learning; to promote the creation and dissemination of knowledge; to serve society through professional practice and community outreach; and to act as a catalyst for the technological development of the San Diego region.

Because the engineer’s work is predominantly intellectual and varied, and not of a routine mental or physical character, this program places emphasis on the mastery of a strong core of subject matter in the physical sciences, mathematics, and the engineering sciences of broad applicability. Woven throughout the pattern is a continuing study of the social facets of our civilization, because engineering graduates must expect to find their best expression as leaders, conscious of the social and economic implications of their decisions.

Although the profession of engineering presents in practice a variety of specialties, undergraduate students initially focus their attention on a pattern of coursework emphasizing engineering fundamentals. Students then are able to apply this knowledge of fundamentals in developing special expertise in their areas of specific interest.

Accreditation and Academic Association
The College of Engineering is a member of the American Society for Engineering Education. 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, http://www.abet.org.

Registration of Engineers
Professional registration of engineers is required for many fields of practice. Engineering students are encouraged to take the Fundamentals of Engineering examination prior to graduation. Graduation from an accreditation program such as San Diego State University facilitates registration as a Professional Engineer.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Engineering.

Doctoral Programs
Engineering Sciences:
   Bioengineering;
   Electrical and Computer Engineering;
   Mechanical and Aerospace Engineering;
   Structural Engineering

Master's Degrees
Master of Science (M.S.)
   Aerospace Engineering, Bioengineering,
   Civil Engineering,
   Electrical Engineering, Mechanical Engineering

Master of Engineering (M.Engr.)
   Aerospace Engineering, Bioengineering,
   Civil Engineering,
   Electrical Engineering, Mechanical Engineering

Bachelor's Degrees
Aerospace Engineering (B.S.), Civil Engineering (B.S.),
   Computer Engineering (B.S.), Construction Engineering (B.S.),
   Electrical Engineering (B.S.), Environmental Engineering (B.S.),
   Mechanical Engineering (B.S.)

Minor
   Engineering

Certificate Program
   Rehabilitation Technology
Research Centers and Institutes

Communication Systems and Signal Processing Institute
Madhu S. Gupta, Director

This institute is engaged in educational, research, and service activities in the field of electronic communication systems, with an emphasis on radio frequency and digital signal processing aspects. Faculty, students, and industrial partners collaborate to advance the state-of-the-art in the institute's core areas of expertise, such as RF devices and integrated circuits, modems, receivers, transmitters, synthesizers, A-D and D-A converters, digital signal processing algorithms and hardware, antenna, and communication networks. Specific activities include research and design projects; development of products, software, algorithms, and techniques; and training programs including short courses.

Concrete Research Institute
Mohamad Ziad Bayasi, Director

The Concrete Research Institute supports educational needs in civil engineering curriculum and concrete research performed for sponsors from industry and governments. The institute encompasses a wide range of topics. The main emphasis is currently on concrete materials and structures. Civil and environmental engineering faculty members are involved with finding optimum design solutions in bridges, seismic resistant structures, residential buildings, and retaining walls. Learn more by visiting the website at http://engineering.sdsu.edu/~sfrc/.

Energy Engineering Institute
Asfaw Beyene, Director

The Energy Engineering Institute has supported educational and research activities in energy related areas since 1985. Undergraduate and graduate students and faculty from the mechanical engineering and electrical and computer engineering departments are involved in obtaining solutions to problems presented by industrial sponsors. Institute research projects cover a wide range of areas from optimizing energy resources to international energy studies. For more information, visit http://www-rohan.sdsu.edu/~energy/.

Center for Industrial Training and Engineering Research (CITER)
Gustaf B. Jacobs, Director

The Center for Industrial Training and Engineering Research (CITER) structures and enhances collaboration between industrial partners and SDSU. The primary objective is to connect SDSU engineering departments, faculty members, undergraduate, and graduate students with engineers and staff scientists of local industry.
College of Health and Human Services

Administration
Dean: Marilyn Newhoff
Associate Dean: Guadalupe X. Ayala
Associate Dean: Larry S. Verity
Assistant Dean for Student Affairs: Jessica M. Robinson

General Information
The College of Health and Human Services offers professional education in the health and human service disciplines. The college consists of the following group of professional areas: the School of Exercise and Nutritional Sciences, School of Nursing, School of Social Work, School of Speech, Language, and Hearing Sciences, and the Graduate School of Public Health.

The College of Health and Human Services’ faculty, through advising, teaching, and supervising, offers students a balanced education of academic study, field placement, clinical experiences, and research opportunities. Thus, faculty and students share an understanding of the relationship between California’s diverse populations and life styles. The common goal of each of the college’s professional programs is to assist students in developing competence in professional practice and research methods leading to greater expertise and life styles. The common goal of each of the college’s professional programs is to assist students in developing competence in professional practice and research methods leading to greater expertise and services.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Health and Human Services.

Doctoral Programs
Audiology
Interdisciplinary Research on Substance Use
Language and Communicative Disorders
Nursing Practice
Physical Therapy
Public Health (Epidemiology, Global Health, Health Behavior)

Master’s Degrees
Exercise Physiology (M.S.), Gerontology (M.S.), Kinesiology (M.S.), Nursing (M.S.), Nutritional Sciences (M.S.), Nutritional Science and Exercise Physiology (M.S./M.S.), Public Health (M.S., M.P.H., M.P.H./M.S.W., M.P.H./M.A., jointly with the College of Arts and Letters), Social Work (M.S.W., M.S.W./M.P.H., M.S.W./J.D., jointly with California Western School of Law); Speech, Language, and Hearing Sciences (M.A.).

Bachelor’s Degrees
Athletic Training (B.S.), Foods and Nutrition (B.S.), Gerontology (B.A.), Kinesiology (B.S.), Nursing (B.S.), Public Health (B.S.), Social Work (B.A.), Speech, Language, and Hearing Sciences (B.A.).

Minors
Gerontology; Public Health; Social Work; Speech, Language, and Hearing Sciences (ASL and Deaf Studies).

Certificate Programs

Credential Programs
Child Welfare and Attendance Services, Pupil Personnel Services (School Social Work), School Nurse Services, Speech Language Pathology.

Research Centers and Institutes
Center for Alcohol and Drug Studies and Services
Susan I. Woodruff, Director

The Center for Alcohol and Drug Studies and Services is a project of SDSU’s School of Social Work. Originally named the Center on Substance Abuse, the center was established in 1985 to address alcohol and drug-related problems at San Diego State University and in the larger community. The center specializes in research and evaluation design with an emphasis on socio-behavioral research and applied evaluation and is an umbrella organization for several alcohol and drug-related research initiatives, including the SDSU Driving Under the Influence Program, which provides education and counseling services for court-ordered offenders in the central judicial district of San Diego County. Over the past decade, the center has received numerous federal, state, and county grants and contracts from sponsors that include NIH, NIDA, NIAAA, Robert Wood Johnson Foundation, SAMHSA, and the Department of Defense. Our multi-disciplinary researchers have decades of experience in research and evaluation and are highly committed to scientific excellence. The center is located at 6386 Alvarado Court, Suite 224, 619-229-2340. We invite you to learn more about us through our website at http://www.centerforaod.sdsu.edu.

University Center on Aging
Anita S. Harbert, Director

The University Center on Aging is administered by the School of Social Work. The center is involved with supporting interdisciplinary educational and curriculum efforts; undertaking research, demonstration and evaluation activities; providing technical assistance and agency consultation for the community; coordinating workshops and seminars; and providing opportunities for student involvement in aging activities. The center serves as a central point for the development, dissemination, and analysis of data related to diversity and aging and long-term care. Learn more about the center at http://socialwork.sdsu.edu/coa.

Institute for Behavioral and Community Health (IBACH)
Guadalupe X. Ayala and Gregory A. Talavera, Co-Directors

Administered through the Graduate School of Public Health, IBACH, formerly known as the Center for Behavioral Medicine, was established in 1982 for the purpose of promoting research and academic programs relevant to the application of behavioral science principles to medicine and health care. IBACH’s current mission is to identify determinants of Latino and other health disparities and intervention approaches that address these determinants. IBACH has 27 investigators from the College of Health and Human Services (Graduate School of Public Health, Exercise and Nutritional Sciences), College of Sciences (Psychology), and the College of Business Administration (Marketing). It has two centers, the South Bay Latino Research Center
and the Center for Research on Sexuality and Sexual Health. Strong research and teaching partnerships have been established with the UCSD School of Medicine, the Department of Pediatrics – Division of Child Development and Community Health, the Department of Family and Preventive Medicine, and Moores Cancer Center. Additional collaborations include Clínicas de Salud del Pueblo, Inc., Healthy Eating and Active Communities, San Ysidro Health Center Scripps Institute, Scripps Whittier Diabetes Institute, Inc., and WalkSan Diego. Funding comes from the National Institutes of Health (NCI, NICHD, NIDDK, NHLBI, NINR), Centers for Disease Control and Prevention, Patient Centered Outcomes Research Initiative, Robert Wood Johnson Foundation, American Cancer Society, Dentaquest Foundation, Howell Foundation, and Kaiser Family Foundation. The institute provides important research experiences to trainees at all levels who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community-based work. IBACH offices are located at 9245 Sky Park Court, Suite 221, San Diego, CA 92113; additional sites are in Imperial County (Calexico and El Centro) and Chula Vista. For more information about IBACH, please visit our website at http://ibachsd.org.

Center for Behavioral Epidemiology and Community Health (CBEACH)
Melbourne F. Howell, Director

Administered through the Graduate School of Public Health, CBEACH was established for the purpose of promoting research to study behavior that prevents or contributes to the causes of disease and injury. Both non-intervention and empirical studies are conducted to determine the factors most responsible for lifestyle practices related to morbidity and mortality. The center focuses on health related behavior – either protective practices or risk practices – and has been concerned with a wide range of public health and medical concerns such as: tobacco prevention in youth; environmental tobacco exposure reduction in children; STDs, AIDS, pregnancy prevention in adolescents, and prevention in women and divorced adults; violence and anger prevention. CBEACH conducts scientific investigations into the following broad areas: behavioral epidemiology, measurement, and interventions (clinical and community-based).

For more information, visit http://www.cbeachsdsu.com.

Consensus Organizing Center (COC)
Jennifer M. Cosio, Director

The Consensus Organizing Center is administered through the School of Social Work. The COC’s mission is to educate and train a new generation of social workers in community building techniques in order to make them effective catalysts for civic engagement and social change. Through school-based programs and community interventions, the center has created an environment for the teaching of consensus organizing skills to community leaders, foster youth, high school students, and social workers. Specific activities include developing a fellowship program for high school students and providing employment opportunities for undergraduate and graduate students, as well as training to the public in San Diego and throughout the nation. The COC has maintained a pledge to support community-based learning by training a select handful of highly qualified SDSU social work interns in the consensus organizing model and placing them in the San Diego community. Under the direction of Director Jennifer M. Cosio, the COC remains a strong influence in the San Diego community and has developed several successful initiatives using the consensus organizing model. The center can be contacted at 619-594-4813 or at http://www.consensus.sdsu.edu.

Heart Institute
Christopher C. Glembotski, Director

The Heart Institute is sponsored by the College of Health and Human Services and the College of Sciences. The goals of the institute are to enhance basic and clinical research in the cardiovascular sciences, to foster undergraduate and graduate education in cardiovascular physiology and medicine, and to provide a community outreach service focused on heightening the awareness of cardiovascular disease and its prevention in the San Diego region surrounding SDSU. The institute is comprised of faculty members representing many different colleges at SDSU, as well as physicians and scientists from local hospitals and clinical research centers. Importantly, the institute also sponsors SDSU undergraduate and graduate student memberships, which strengthens the involvement of students in all aspects of Heart Institute activities. The unusual blend of talent and expertise that comprise the institute membership results in an interdisciplinary approach to cardiovascular research, education and community outreach that is unique to the Heart Institute. The institute sponsors special seminars, on- and off-campus, which cover a wide range of topics in the field, and provides funding for the support of graduate students who are involved in cardiovascular research at SDSU. Areas of focus for the institute include studies of the molecular basis of cardiovascular disease, establishment of unique approaches for the early detection and prevention of cardiovascular disease, and the promotion of cardiovascular health in San Diego area K-12 schools. An important feature of these efforts that distinguishes the Heart Institute is the central role that SDSU students play in each of these areas. Funding for Heart Institute activities comes from a variety of sources, including the National Institutes of Health, the American Heart Association, the Muscular Dystrophy Association, the Rees-Steady Research Foundation, and several San Diego-based biotechnology companies. For more information, contact the Heart Institute office at 619-594-5504 or at http://www.bio.sdsu.edu/heart/sdsuhihome.htm.

Academy for Professional Excellence
Jennifer Tucker-Tutlow, Director

The Academy for Professional Excellence, administered through the School of Social Work, was established in 1996 with the mission to provide quality training and organizational support to health and human services agencies in the Southern California region including the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego, Santa Barbara, and Ventura. The goal of the academy is to have university faculty and staff available to public and private health and human services agencies in the region by providing coaching, community building (classroom, field-based, online), curriculum development, organization development services, leadership development, training, and training evaluation. The academy develops competency-based curriculum on select topics for health and human services agencies in the region, provides quality training to service providers and administrators employed in health and human services agencies, engages in research and evaluation to improve the quality, accountability, and responsiveness of health and human service agencies, and develops executives in the Southern California region who will have the experience, knowledge, and skills to effectively guide organizational change and development. The academy has extensive experience managing contracts with multiple partners and organizations. The academy manages an annual operating budget of over six million dollars, comprised of multiple grants and contracts from local, federal, state governments, and private foundations. The academy is located at 6505 Alvarado Road, Suite 107, and can be reached at 619-594-3546 or at http://pcwta.sdsu.edu.

Institute for Public Health (IPH)
Suzanne P. Lindsay, Director

Administered through the Graduate School of Public Health, the mission of the IPH is to serve as a vehicle for the development and support of functional linkages between the SDSU Graduate School of Public Health, local public health agencies, and private organizations in the San Diego community and neighboring areas, including Mexico. These linkages expand the availability of university-based public health expertise, research and information in the areas of epidemiology, biostatistics, health promotion and behavioral science, occupational and environmental health, maternal and child health, health services management and policy, and global/border health. Specific activities include collaborative research, technical assistance, program evaluation, consultation, continuing education and professional development, student field placement, faculty/practitioner exchange, information dissemination, and various service activities. The institute serves to bridge public health academics and practice by facilitating meaningful partnerships between faculty, students, and local practitioners. Visit the institute online at http://iph.sdsu.edu.
The institute serves to create a focus for excellence in healthcare education and research, advancing theory and practice in health services. Researchers conduct relevant healthcare research; clinical internships are provided, including in the Sharp Healthcare environment, to talented and promising future healthcare employees; guest lectures, seminars, and workshops are sponsored on emerging healthcare topics; and doctoral projects addressing critical issues in Sharp Healthcare and beyond foster mentoring and advanced applied clinical practice.

Social Policy Institute
Steve D. Hornberger, Director
Administered through the School of Social Work, the mission of the institute is to assist local, regional and state public and private sector leaders in the development of policies and programs that focus on family and community well-being. The institute is particularly focused on efforts that impact social determinants of health and reduce adverse outcomes for vulnerable communities, families, and individuals. To that end, we assist in identifying community strengths and delivery, needs, outcomes of care, program design, quality, as well as catalyzing and convening community leaders. The institute is particularly interested in innovative efforts that are collaborative, data driven, inclusive, and sustainable. The institute has prepared a training manual and CD-ROM for home visitors and case managers working with vulnerable families and has conducted community needs assessments surveys in Baja California Sur for the purpose of policy and program development. A computerized information system to provide decision and evaluation support to human services agencies has been developed and is available through the San Diego State University Research Foundation Technology Transfer Office.

For more information, visit http://socialwork.sdsu.edu/research/research-centers-institutes/social-policy-institute.

Center for Research on Sexuality and Sexual Health (SASH)
Eric Buhi and Heather L. Corliss, Co-Directors
Administered through the Graduate School of Public Health, the Center for Research on Sexuality and Sexual Health (SASH) contributes to the mission of SDSU by helping to advance and extend knowledge, learning, and culture related to sexuality and sexual health; provide opportunities for individuals to develop intellectually, personally, professionally; and prepare significant numbers of educated, responsible people to contribute to California's communities, culture, economy, future, and schools. SASH provides a quality, well-balanced education for undergraduate and graduate students, contributes knowledge and solutions to problems related to sexuality and sexual health through excellence and distinction in research, service, and teaching.

For more information, visit http://publichealth.sdsu.edu/sash/.

South Bay Latino Research Center (SBLRC)
Gregory A. Talavera, Director
Administered through the Graduate School of Public Health, the South Bay Latino Research Center (SBLRC) is an SDSU-approved integrated research unit and serves as the community-based site for research activities. SBLRC Director, Dr. Gregory A. Talavera, has received numerous grants to study Latino health disparities including serving as the principal investigator of the Hispanic Community Health Study/Study of Latinos (HCHS/SOL).

For more information, visit http://sandiegohchssol.blogspot.com/.
College of Professional Studies and Fine Arts

Administration
Dean: Joyce M. Gattas
Associate Dean: Donna M. Conaty
Assistant Dean for Student Affairs:
Senior Director of Development: Mary Darling
Director of Community Engagement and
Innovative Programs: Christine E. Timbol
Director of International Programs: Giancarlo Taylor
College Communications Officer: Christianne Penunuri

General Information
The College of Professional Studies and Fine Arts is committed to the pursuit of excellence in academic and artistic endeavors geared to enhancing the human enterprise. Composed of 10 departments and schools, the college is recognized for its excellent academic programs that create a bridge between university and community life by preparing students for professional careers in a wide spectrum of artistic, cultural, educational, social, economic, and technical fields.

The college houses the schools of Art and Design; Communication; L., Robert Payne Hospitality and Tourism Management; Journalism and Media Studies; Music and Dance; Public Affairs; Theatre, Television, and Film. The college also houses three ROTC departments with programs that lead to commissioned officer status upon graduation.

Preparing students to engage in the world-wide community through creativity, involvement, leadership, and innovation is the hallmark of the PSFA experience. Faculty of the college pride themselves on creating a classroom that is a stepping stone to the global community. PSFA is the only college to offer an International Studies minor; students are encouraged to include study and research abroad as part of their PSFA experience. Faculty maintain professional relationships and conduct research in their respective industries, allowing students to participate in meaningful, real-world service learning opportunities in the local and global community. With the support of the largest alumni group at the university, PSFA bridges the college experience by providing students access to professional opportunity through internships and contact with industry professionals in the classroom and the community. Our alumni serve as key advisers and provide a critical link to the professional community. The PSFA experience links college, community, and career.

Curricula Offered
Refer to the courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by schools and departments within the College of Professional Studies and Fine Arts.

Master's Degrees
Art (M.A., M.F.A.), City Planning (M.C.P.), Communication (M.A.), Criminal Justice and Criminology (M.S.; jointly with the College of Arts and Letters), Film and Television Production (M.F.A.), Hospitality and Tourism Management (M.S.), Music (M.A., M.M.), Public Administration (M.P.A., M.P.A./M.A.; jointly with the College of Arts and Letters), Television, Film and New Media Production (M.A.), Theatre Arts (M.A., M.F.A.).

Bachelor's Degrees
Art (B.A.), Communication (B.A.), Criminal Justice (B.S.), Dance (B.A., B.F.A.), Health Communication (B.S.), Hospitality and Tourism Management (B.S.), International Security and Conflict Resolution (B.A.; jointly with the College of Arts and Letters and the College of Sciences), Journalism (B.A.), Music (B.A., B.M.), Public Administration (B.A.), Recreation Administration (B.S.), Television, Film and New Media Production (B.S.), Theatre Arts (B.A.).

Minors

Military Curricula

Certificate Programs
Artist Diploma, Communication, Entertainment Management, Health Communication, International Media, Performance, Public Administration (available at Imperial Valley Campus only).

Arts Alive SDSU
Danielle J. Bedau, Chair

Arts Alive SDSU is a campus-wide arts visibility initiative that provides opportunities for students, faculty, and staff to engage in transformational arts interactions as part of an arts-rich, robust educational community on the campus of San Diego State University. Arts Alive SDSU’s primary goals are to broaden awareness of arts events and programming, increase attendance at arts events, expand academically informed art-making opportunities, and integrate arts events and arts practices into curriculum. Pop-up performance and gallery events take place at the Farmers’ Market, Art Under the Dome at the library, and the Conrad Prebys Aztec Student Union, along with a robust social media campaign, provide promotion of signature and supported events in the schools of Art and Design, Music and Dance, and Theatre, Television, and Film. Arts Alive SDSU develops and expands interdisciplinary curriculum opportunities by serving as a nexus for faculty interested in cross-disciplinary dialogue and collaboration. Visit the website at http://artsalive.sdsu.edu for additional information.

Research Centers and Institutes

The J. Willard and Alice S. Marriott Foundation Student Center for Professional Development
Brian P. Blake, Director

The J. Willard and Alice S. Marriott Foundation Student Center for Professional Development is housed in the School of Hospitality and Tourism Management (HTM). The center provides support for internship programs related to the hospitality industry. It assists HTM students in finding internships and job placement through workshops, focus groups, and continuing conversations with industry leaders. Every HTM student spends two semesters working with the center, and again uses center resources at graduation. This experiential learning builds professional competencies which enhance effectiveness when students enter the workforce. The center serves as a testing ground to determine an individual’s competence before hiring as a permanent employee. Visit http://htm.sdsu.edu/web/index.php/students/center_professional_development for more details.
Center for Hospitality and Tourism Research
Carl Winston, Director

The Center for Hospitality and Tourism Research is an education and research center dedicated to the study and application of professional principles in the broad field of hospitality and tourism. The mission of the center is to enhance the skills and knowledge of professionals and students in the field of hospitality and tourism management through the creation and delivery of initiatives in executive development, research, and curriculum innovation.

Programs associated with the center focus on identifying “best practices” in all aspects of hospitality and tourism such as hotel operations, restaurant operations, global tourism, and events, conventions and attractions management. The center’s mission is pursued in many ways, with the goal of growing the center’s impact on both the SDSU School of Hospitality and Tourism Management and on the larger hospitality and tourism industry. The center actively seeks to support SDSU, the College of Professional Studies and Fine Arts, and members of the local and national community in matters related to hospitality and tourism.

Contact the center in Professional Studies and Fine Arts, Room 436, or at 619-594-4964, or visit the website at http://htm.sdsu.edu/web/index.php/centers

Sycuan Institute on Government Gaming
Katherine A. Spilde, Director

The Sycuan Institute on Government Gaming, in partnership with the Center for Global Gaming Research, is housed in the L. Robert Payne School of Hospitality and Tourism Management. Under the terms of an endowment by the Sycuan Band of the Kumeyaay Nation, the institute has created and introduced an academic curriculum leading to the B.S. in Hospitality and Tourism Management with an emphasis in Tribal Gaming Operations and Management. The institute also produces and funds original academic research related to the legal gambling industry with an emphasis on tribal government gaming. In particular, the institute is dedicated to the development of a professional class of gaming industry experts who understand the unique partnership between host governments and the legal gambling industry. The institute actively engages students, faculty, and industry partners in order to cultivate a professional workforce, develop and document best practices, and share successful gaming innovations. Visit http://htm.sdsu.edu/web/index.php/centers/sycuan for details.

The Investigative Newsource
Lorie Hearn, Executive Director

Investigative Newsource is housed in the School of Journalism and Media Studies. The institute is an independent, non-profit organization whose mission is twofold: (1) to produce investigative, data-driven journalism that informs the citizens of San Diego and Imperial counties and (2) to help develop the investigative journalists of the future. Through internships and other mentoring opportunities, the institute offers ways to enhance the learning experience of journalism students at San Diego State University. The institute is collaborative, not competitive, and seeks to distribute its work across multiple media platforms – print, broadcast and online – throughout the region. The institute is nonprofit and does not engage in political advocacy. The website is http://www.inewssource.org.

Conrad N. Hilton Foundation Volunteer and Mentorship Center

The Conrad N. Hilton Foundation Volunteer and Mentorship Center is an endowed center that connects hospitality and tourism management (HTM) students to numerous volunteer and mentoring opportunities throughout San Diego.

Housed in the L. Robert Payne School of Hospitality and Tourism Management, the center engages with area high schools to provide learning opportunities for under-served youth. These range from supervised one-on-one mentoring by HTM students to high school students, to an annual one-day educational conference managed and produced by the center. These programs shape responsible citizens through life-changing experiential teaching and learning opportunities and inspire active engagement with the social and economic development of San Diego. Visit the website at http://htm.sdsu.edu/web/index.php/students/volunteer_mentorship_center for more details.

Institute of Public and Urban Affairs
Mounah Abdel-Samad, Director

The Institute of Public and Urban Affairs is located in the School of Public Affairs. The institute was established to conduct research in community and governmental affairs and to sponsor conferences, colloquia and symposia related to issues in public administration and affairs including urban planning, management, and criminal justice administration. The institute also publishes occasional working papers and research monographs. Selected students and faculty of San Diego State University staff the institute. An integral part of the institute is the Public Administration Center which contains a specialized and growing collection of research materials emphasizing issues in public affairs particular to San Diego and California. Visit the website at http://ipua.sdsu.edu/ for additional information.

Institute for Meetings and Events
Stephanie Dathe, Director

The Institute for Meetings and Events is focused on education and research dedicated to the application of professional principals in meetings and events. The institute was created to enhance education and knowledge of students and professionals in this discipline. The institute has a global orientation and is guided by an international advisory board composed of the profession’s most seasoned and successful leaders. The institute offers symposia, forums, and other education programs to stimulate dialog and discussion on key issues and to create new knowledge in this dynamic and emerging discipline. The institute conducts timely and innovative research as well as benchmarking data for best-practices. The institute involves faculty with expertise in disciplines as diverse as project management, business, public relations, graphic design, theatre, and hospitality. For additional information, contact Stephanie Dathe at sdathe@mail.sdsu.edu.

Center for Surf Research
Jess Ponting, Director

The Center for Surf Research is the first of its kind in the world. The center responds to the challenges of a rapidly expanding surfing industry and the broadening horizons of surf tourism and its impact on peoples, environments, and economies along the coastlines of more than 100 countries. Housed in the L. Robert Payne School of Hospitality and Tourism Management, the center engages with the surf industry and surf tourism industry to create a cutting edge research agenda; disseminates specialist knowledge to governments, the surf industry, tourism developers, destination communities, non-profits, and tourists; shapes responsible global citizens through life-changing experiential learning opportunities and study abroad programs; and, inspires active stakeholder engagement with the social and economic development of destination communities, the sustainable use of their resources, and the conservation of their critical environments. For more information, visit the website at http://csr.sdsu.edu/.
Production Center for Documentary and Drama  
Timothy Powell, Director

The Production Center for Documentary and Drama is located in the School of Theatre, Television, and Film and is the professional production arm of the university. The center mentors graduate students in media in the creation of projects that promote their artistic and technical growth, and works with global film schools, film institutes, and filmmakers in the production of its long-running, international TV series, “The Short List,” showcasing short films. The center interfaces with local, state, and national entities in the creation of films and television programs in the arts, humanities, and sciences, including distribution on public and cable television. These projects provide senior and graduate students with professional opportunities to work in key capacities, such as writing, directing, camera crew, editing, and production design.

For more information, visit the website at http://arweb.sdsu.edu/es/admissions/majors/tvfilmnewmediaprod.htm.

Center for the Study of Media and Performance (CSMP)

The Center for the Study of Media and Performance (CSMP) is an interdisciplinary forum for critical inquiry into the many expressions of live art and screen culture. The center invites faculty from across SDSU to participate in lectures, meetings, symposia, performances, screenings, and other presentations that explore the discourses linked by the keywords “media” and “performance.” The center aims to engage leading thinkers in these and related fields in a national dialogue. The center welcomes participation from SDSU faculty, students, and affiliates, as well as the greater San Diego community.

The objective of the center is to make a significant intervention into research practices in the arts. Art is a mode of critical inquiry, and proceeding from this premise, the center seeks to bridge the divide separating theory and practice in the academy, as well as in the studio. Some of the center’s projects will take the form of practice-based research that uses media forms and/or live performance to interrogate youth culture, classic literature, and our contemporary world. Aligned with the mission of the College of Professional Studies and Fine Arts and the School of Theatre, Television, and Film, the center brings together artists and scholars to engage in new ideas about critical analysis, devising, presenting, and other modes of research in the arts.

Center for the Study of Women in Television and Film  
Martha M. Lauzen, Director

The Center for the Study of Women in Television and Film is the nation’s first program dedicated solely to the study and discussion of women’s representation on screen and behind the scenes in television and film. The purpose of the center is to (1) engage students, faculty, and individuals working in the industry in an on-going discussion regarding the portrayals of girls and women in television and film and women’s employment behind the scenes; (2) heighten the profile of women’s representation in television and film as a public policy issue and concern; (3) train the next generation of scholars to analyze media images of women, and; (4) conduct an expanded agenda of original research on women’s representation in television and film that has both practical and theoretical import.

To learn more, visit http://womenintvfilm.sdsu.edu.

Institute for Leisure and Tourism Management  
Lawrence A. Beck, Director

The Institute for Leisure and Tourism Management is primarily concerned with conducting leisure-related research, promoting professional development, disseminating specialized publications, and organizing conferences, seminars, lectures, and workshops.

Center for Learning, Instruction, and Performance Technologies  
Marcie J. Bober-Michel, Director

The center’s faculty and staff conduct research on the design and use of technology-based systems for enhancing human learning and performance, monitor trends in advanced applications of educational technology and allied disciplines, and evaluate the effectiveness and usability of educational products and services. The center consults with corporations, agencies, and SDSU affiliates on the design of products for education and training, arranges for on-site and electronic delivery of professional development courses and seminars by the nationally recognized faculty of SDSU Learning Design and Technology, and coordinates fieldwork and internship opportunities for advanced graduate students.
Administration
Dean: Stanley R. Maloy
Associate Dean for Graduate and Research Affairs: Alan T. Phillips
Associate Dean for Academic and Faculty Affairs: Catherine J. Atkins
Assistant Dean for Student Affairs: Estralia Martin
Director of Development: Stacy Carola
Director of Resource Management: Tony P. Carrasco

General Information
The College of Sciences, composed of eight departments and various subprograms, offers bachelor’s, master’s, and doctoral degrees, and curricula for preprofessional students in medicine, veterinary medicine, and dentistry. The science curriculum is enhanced by research centers which provide field experience as well as special seminars with guest speakers. The off-campus sites include the Mt. Laguna Observatory, and about 5,000 acres in four biological sciences research stations. The majority of tenured Sciences faculty have active research programs which offer student involvement.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Sciences.

Doctoral Programs
Biology (Cell and Molecular), Chemistry, Clinical Psychology, Computational Science, Ecology, Evolutionary Biology, Geophysics, Mathematics and Science Education.

Master’s Degrees
Applied Mathematics (M.S.), Astronomy (M.S.), Biology (M.A., M.S.), Chemistry (M.A., M.S.), Computational Science (M.S.), Computer Science (M.S.), Geological Sciences (M.S.), Homeland Security (M.S.), Mathematics (M.A.), Medical Physics (M.S.), Microbiology (M.S.), Physics (M.A., M.S.), Psychology (M.A., M.S.), Regulatory Affairs (M.S.), Statistics (M.S.).

Bachelor’s Degrees
Astronomy (B.S.), Biology (B.A., B.S.), Chemical Physics (B.S.), Chemistry (B.A., B.S.), Computer Science (B.S.), Environmental Sciences (B.S.), Geological Sciences (B.A., B.S.), International Security and Conflict Resolution (B.A.; jointly with the College of Arts and Letters and the College of Professional Studies and Fine Arts), Mathematics (B.A., B.S.), Microbiology (B.A., B.S.), Physical Science (B.A.), Physics (B.A., B.S.), Psychology (B.A., B.S.), Statistics (B.S.).

Minor

Certificate Programs

Health Professions Curricula
Pre-dental, Pre-medical, Pre-optometry, Pre-pharmacy, Pre-physician Assistant, Preventer veterinary.

Research Centers and Institutes
Institute for Behavioral and Community Health (IBACH)
Guadalupe X. Ayala and Gregory A. Talavera, Co-Directors
Administered through the Graduate School of Public Health, IBACH, formerly known as the Center for Behavioral Medicine, was established in 1982 for the purpose of promoting research and academic programs relevant to the application of behavioral science principles to medicine and health care. IBACH’s current mission is to identify determinants of Latino and other health disparities and intervention approaches that address these determinants. IBACH has 27 investigators from the College of Health and Human Services (Graduate School of Public Health, Exercise and Nutritional Sciences), College of Sciences (Psychology), and the College of Business Administration (Marketing). It has two centers, the South Bay Latino Research Center and the Center for Research on Sexuality and Sexual Health. Strong research and teaching partnerships have been established with the UCSD School of Medicine, the Department of Pediatrics – Division of Child Development and Community Health, the Department of Family and Preventive Medicine, and Moores Cancer Center. Interdepartmental collaborations include Clínicas de Salud del Pueblo, Inc., Healthy Eating and Active Communities, San Ysidro Health Center Scripps Institute, Scripps Whittier Diabetes Institute, Inc., and WalkSan Diego. Funding comes from the National Institutes of Health (NHLBI, NIDDK, NHLD, NIBIB, NINR), Centers for Disease Control and Prevention, Patient Centered Outcomes Research Initiative, Robert Wood Johnson Foundation, American Cancer Society, Dentaquest Foundation, Howell Foundation, and Kaiser Family Foundation. The institute provides important research experiences to trainees at all levels who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community-based work. IBACH offices are located at 9245 Sky Park Court, Suite 221, San Diego, CA 92123; additional sites are in Imperial County (Calexico and El Centro) and Chula Vista. For more information about IBACH, please visit our website at http://ibachsd.org.

Center for Behavioral Teratology (CBT)
Edward P. Riley, Director
Sarah N. Mattson, Associate Director
Teratology is the study of birth defects. The faculty and students at the Center for Behavioral Teratology (CBT) are interested in how prenatal exposure to various drugs influences both brain and behavioral development. Additionally, members of the center engage in research related to the general neurotoxicity of alcohol as well as the study of other birth defects and disorders. The CBT is truly an interdisciplinary research organization, with a broad range of basic and clinical research interests. While the primary purpose of the CBT is to promote research in teratology, personnel in the center also act as a resource to the university and the community. The staff provides in-service talks at local hospitals, schools, and drug treatment facilities, as well as lectures to various classes at the university. The CBT staff is active in communities in the region, and the center has received grants from the National Institutes of Health, Tobacco-Related Disease Research Program, and the State of California.

Coastal and Marine Institute (CMI)
Todd W. Anderson, Director
The Coastal and Marine Institute (CMI) promotes marine science research, education, and public service at SDSU. CMI emphasizes research in near-shore coastal ecosystems and is composed of faculty among departments within and outside the College of Sciences. The institute operates the SDSU Coastal and Marine Institute Laboratory (CMIL) located on San Diego Bay, facilitating faculty and student research and fostering interaction and collaboration with other institutions, agencies, and the community. CMIL offers closed-circuit and flow-through seawater, environmentally...
controlled rooms, a wet lab, analytical lab, equipment room, dive locker, and shop. A large yard for boat storage, equipment storage, and outdoor mesocosms to conduct research is also provided. The institute is administered by a director and an advisory council consisting of faculty members from participating departments, including Biology, Chemistry, Geological Sciences, and the Graduate School of Public Health. Additional information about marine studies is available from the Coastal and Marine Institute director, from the College of Sciences, and from the CMI website: http://www.sci.sdsu.edu/CMI.

Computational Science Research Center (CSRC)
José E. Castillo, Director
Andrew L. Cooksy, Paul J. Paolini, and Satchi Venkataraman, Associate Directors

The Computational Science Research Center (CSRC) promotes the development and advancement of the interdisciplinary subject of computational science. This is accomplished by fostering research, developing educational programs, and promoting industrial interaction, outreach, and partnership activities.

The center provides an environment for scientific research at San Diego State University. It facilitates the interaction between applied mathematics, computer science, and other disciplines by providing the necessary infrastructure for productive research efforts. Real world applications are the focus of faculty and student projects. These projects provide an educational opportunity for students to hone industrially relevant computational skills. The CSRC provides high performance computing and network support to the faculty in the College of Sciences, the College of Engineering, and other colleges on campus in need of computational infrastructure support.

The goals of the center are to encourage and facilitate research in computation, simulation, visualization, and numerical modeling in all disciplines (business and finance, biology and bioinformatics, engineering, physical sciences, and geography); to interact with other centers, laboratories, universities, and local industry; reduce lag time between algorithm development/analysis and applications; to participate in programs with other countries, including international programs sponsored by the National Science Foundation; to arrange visits by professors, including foreign visitors on sabbaticals and professional staff on industrial sabbaticals; to arrange part time and adjunct appointments for consulting activities by professional staff from local research laboratories; to provide employment, experience, and contacts for students; to sponsor conferences, workshops, and courses; to facilitate collaboration with government laboratories with private sector; to provide bridges to regional industry; and to direct the computational science program at San Diego State University.

Interested students and faculty may obtain more information by contacting the CSRC at 619-594-3430 or http://www.csrc.sdsu.edu.

Edwin C. Allison Center for Earth System History
Stephen A. Schellenberg, Director

Throughout the history of science, many of the critical breakthroughs in scientific understanding have resulted from cross-disciplinary research. The mission of the Allison Center for Earth System History is to foster this approach across the fields of paleontology, paleoclimatology, geochemistry, sedimentology, and organismal biology. The center seeks to facilitate research designed to improve and disseminate our understanding of global climate change and biodiversity, arguably the two most important topics facing current and future generations. Research materials of past and present faculty and their students form the core of an in-house reference and systematics collection, including Cretaceous to Recent Ostracodes from globally distributed ocean drilling sites and Orдовiciian, Devonian, and Carboniferous brachiopods and associated communities from the Appalachian Basin, the Great Basin, the Ohio Valley, and the mid-continent. Scholarly examination of these and other materials by SDSU students, faculty, and guests (e.g. visiting students, faculty) are supported through dedicated research space and facilities, including image analysis and carbonate microsampling systems.

For more information, about the center, visit the website at http://www.geology.sdsu.edu/facilities/allisonctr.

Institute for Ecological Monitoring and Management (IEMM)
The Institute for Ecological Monitoring and Management (IEMM) provides a productive, interdisciplinary, and collaborative environment for research directed at developing new approaches, techniques and models for ecological monitoring and management. It engages in applied research that conducts science in service of policy and management, and works to translate science for policy makers and the larger community.

IEMM serves as a nexus to promote inter-department and inter-college research initiatives and facilitates the incorporation of academic and scientific expertise and involvement into relevant restoration, conservation and monitoring projects in the greater San Diego area. Its mission is to create an internationally and nationally recognized research entity. IEMM has three primary goals: research, training, and community service.

Center for Energy Studies (CES)
Alan R. Sweedler, Director

The San Diego State University Center for Energy Studies (CES) facilitates, promotes and supports research and academic programs relating to energy, with particular emphasis on energy matters of concern to the greater San Diego region including the international border with Mexico. The center encourages interdisciplinary research and instructional programs in the broad areas of energy modeling, technology assessment of energy systems, local energy policy planning and data collection relating to energy usage in the San Diego region. SDSU offers through the CES an interdisciplinary minor in energy studies. Completion of the minor will give the student a broad understanding of the technical, economic, social, and political aspects of energy issues. The CES is closely integrated with the environmental sciences program, which offers a Bachelor of Science degree through the College of Sciences and the recently established SDSU Center for Regional Sustainability. The CES works closely with local and state agencies concerned with energy policy and planning, and serves as a community resource in matters concerning local energy issues, and the impact of energy use of the environment.

For more information, call the CES at 619-594-1354.

Field Stations Program
Paul Ganster, Director

The Field Stations Program provides opportunities for a broad community of students and faculty to explore the natural ecosystems of southern California. In addition, the field stations serve SDSU by functioning as a liaison to broader public community, highlighting SDSU's expertise regionally, nationally, and internationally. The Field Stations Program manage almost 9,000 acres of San Diego and Riverside county land for university teaching and research. SDSU currently has four field stations: the Sky Oaks Field Station, 1,640 acres of high elevation redshank chaparral habitat in the Chihuahua Valley east of Temecula Valley; the Santa Margarita Ecological Reserve (SMER), a 4,464 acre reserve located along the upper Santa Margarita River inland from Camp Pendleton in San Diego and Riverside Counties; Fortuna Mountain, 231 acres close to the SDSU campus located within Mission Trails Regional Park; and the Tijuana River National Estuarine Research Reserve, a 2,513-acre reserve which serves as an auxiliary field station for SDSU.

Providing research and education opportunities for the future requires detailed knowledge of how changes in the environment outside the boundaries of a certain area affect ecosystem dynamics within that area. As habitat continues to be lost to development, areas such as the SDSU field stations will increase in importance as sites for studying natural ecosystems.

74  SDSU General Catalog 2016-2017
The proximity of sensitive habitats to a rapidly urbanizing landscape makes this region a recognized biodiversity ‘hot spot.’ San Diego State University has an extremely dynamic group of scientists (faculty, researchers, and students) working to understand these unique and threatened ecosystems. Research ranges from the global scale examining global warming and the impacts of increased carbon dioxide on native vegetation to the meso- and micro-scales of chaparral ecosystems dynamics, as well as plant, vertebrate, insect, and fungal diversity. Researchers at SDSU are also increasingly using sophisticated computer modeling and molecular techniques for analyzing environmental change. Natural sciences are the core users of the SDSU field stations. Biology, geography, geological sciences, hydrogeology, and other field sciences are consistent areas of study. There are growing opportunities for interdisciplinary work as well as for nontraditional study in the fields ranging from public health, civil and environmental engineering, recreation, business, and art, to education.

Persons interested in conducting research, instructional use, or access to the SDSU field stations should contact the academic programs of the SDSU Field Stations Program at 619-594-0580 or through the website at http://fs.sdsu.edu.

Heart Institute
Christopher C. Glembotski, Director

The Heart Institute is sponsored by the College of Sciences and the College of Health and Human Services. The goals of the institute are to enhance basic and clinical research in the cardiovascular sciences, to foster undergraduate and graduate education in cardiovascular physiology and medicine, and to provide a community outreach service focused at heightening the awareness of cardiovascular disease and its prevention in the San Diego region surrounding SDSU. The institute is comprised of faculty members representing four different colleges at SDSU, as well as physicians and scientists from local hospitals and clinical research centers. Importantly, the institute also sponsors SDSU undergraduate and graduate student memberships, which strengthens the involvement of students in all aspects of Heart Institute activities. The unusual blend of talent and expertise that comprise the institute membership results in an interdisciplinary approach to cardiovascular research, education and community outreach that is unique to the Heart Institute. The institute sponsors special seminars, on- and off-campus, which cover a wide range of topics in the field, and provides funding for the support of graduate students who are involved in cardiovascular research at SDSU. Areas of focus for the institute include studies of the molecular basis of cardiovascular disease, establishment of unique approaches for the early detection and prevention of cardiovascular disease, and the promotion of cardiovascular health in San Diego area K-12 schools. An important feature of these efforts that distinguishes the Heart Institute is the central role that SDSU students play in each of these areas. Funding for Heart Institute activities comes from a variety of sources, including the National Institutes of Health, the American Heart Association, the Muscular Dystrophy Association, the Rees-Stealy Research Foundation, and several San Diego-based biotechnology companies.

For more information, contact the Heart Institute office at 619-594-5504.

Integrated Regenerative Research Institute (IRRI)
Mark A. Sussman, Director

The Integrated Regenerative Research Institute (IRRI) promotes faculty participation and collaboration in research and teaching programs relating to regenerative research on both basic and translational levels in health and disease. The institute (1) fosters and encourages communication of ideas and information among its membership for mutual professional improvement; (2) attracts students to SDSU for participation in research and teaching programs dealing with regenerative research, and encourages them to adopt affiliation with Institute members and to develop an interdisciplinary understanding of their particular areas of interest in regenerative biology; (3) fosters active, collaborative research programs among Institute members; (4) seeks ways to expand and improve graduate and undergraduate instructional programs relating to regenerative research.

Center for Microbial Sciences
Stanley R. Maloy, Associate Director

The Center for Microbial Sciences is a research center dedicated to the study of microorganisms. The center’s mission is to provide a productive, stimulating, and interactive research environment that will lead to rapid progress in the fields of microbial biology. The center integrates multiple scientific approaches to elucidate basic biological principles that helps in combating human health problems caused by microorganisms and stimulates applications of microorganisms in the biotechnology industry.

The center encourages multidisciplinary scientific research by bringing together a group of creative, cooperative investigators with different scientific backgrounds to attack major questions in microbial biology using a variety of experimental approaches. The center also trains scientists to attack important but neglected problems in microbial biology. The close proximity of the Center for Microbial Sciences to a nucleus of biotechnology companies facilitates interactions with industry. The center also collaborates with neighboring institutions with expertise in other biological areas (UCSD, Scripps Research Institute, Salk Institute, Scripps Institution of Oceanography, and others) providing additional intellectual and physical resources.

The primary goals of the center are: Research – To attract a group of imaginative, interactive investigators and provide a stimulating environment for productive, innovative research in microbial biology; Training – To train a new generation of scientists to solve important problems in microbial biology using innovative experimental approaches; Outreach – to provide expertise and facilities for visiting scientists from academia and industry to learn new technologies.

Find out more about the center by visiting the website at http://www.sci.sdsu.edu/~smaloy/CMIS/.

Molecular Biology Institute
Greg L. Harris, Director

The Molecular Biology Institute was established to serve interested departments of the biological and physical sciences in the coordination, support and enhancement of research and instruction in the molecular biological sciences. Interests and activities of the MBI encompass all approaches which aim to explain biology at the molecular level. The MBI sponsors a weekly seminar series that facilitates faculty and student interaction with scientists from other institutions. Currently, full members of the institute are drawn from the Departments of Biology, Chemistry and Biochemistry, and the Graduate School of Public Health, and participate in the respective Ph.D. programs. Associate members are drawn from a variety of disciplines that are cognate with the molecular biological sciences. The institute is also constituted as the university unit authorized to administer the master’s degree program with an emphasis in molecular biology. The research programs of the MBI members are supported by a variety of agencies including the National Institutes of Health, the National Science Foundation, NASA, the American Heart Association, the American Diabetes Association, the Muscular Dystrophy Association, the Department of Energy, the US Department of Agriculture, and the California Metabolic Research Foundation.

Additional information is available from the MBI office at 619-594-5655 or through the Master of Science degree website at http://www.bio.sdsu.edu/cmbfmasters.html.
Center for Regulatory Science
Catherine J. Atkins, Interim Director
Lorah W. Bodie, Associate Director

The Center for Regulatory Science focuses on education and training related to the research, development, manufacture, commercialization, and post-marketing surveillance of pharmaceutical, biological, and medical device products regulated by the FDA and its international counterparts. The center's programs address the ever-arching legal, ethical, and regulatory requirements for biomedical products. Programs provide students with the broad-based skills required by biotechnology companies as their initial product development projects progress from research and development into clinical research, process development, manufacturing, and beyond.

The Master of Science degree in regulatory affairs was the first program developed and offered by the center. Other offerings include an advanced certificate in regulatory affairs and an advanced certificate in intellectual property and regulatory affairs, offered in partnership with the University of San Diego School of Law.

Online e-learning technologies are used to make the center's education and training programs widely available to individuals outside of the San Diego region. Flexible learning options are designed to accommodate the busy work and travel schedules of industry professionals. The center is attuned to national and regional economic and workforce development issues, and interfaces with industry professionals. The center's programs address the over-arching legal, ethical, and regulatory requirements for biomedical products.

Programs are offered in collaboration with the University of San Diego School of Law, as well as with the University of California, San Diego, and the University of California, Riverside. The center's programs are designed to accommodate the busy work and travel schedules of industry professionals.

Center for Research in Mathematics and Science Education (CRMSE)
Randolph A. Philipp, Director

The Center for Research in Mathematics and Science Education (CRMSE) is an interdisciplinary consortium of faculty interested in research on substantive questions related to the learning and teaching of science and mathematics. The center currently has members from the faculties of biology, dual language and English learner education, mathematics and statistics, physics, psychology, and teacher education. CRMSE is administered by a director and an associate director, who are appointed by the deans of the Colleges of Sciences and Education, in consultation with CRMSE members.

Through its activities, CRMSE initiates, encourages, and supports the scholarly pursuit of important theoretical and applied problems in mathematics and science education. CRMSE supports faculty in their current research projects and in the preparation of manuscripts for publication and grant proposals for continued research. The center houses the Doctoral Program in Mathematics and Science Education (MSED) that is offered jointly by SDSU and the University of California, San Diego. It also houses the Professional Development Collaborative to serve area teachers.

The main office of the center is located at 6475 Alvarado Road, Suite 206, San Diego, CA 92120-5013. For more information, contact 619-594-1579. The center may also be reached via campus Mail Code 1862 and at http://crmse.sdsu.edu.

Visualization (Viz) Center
Eric G. Frost, Director

The SDSU Visualization (Viz) Center uses computer visualization and communications to bear on societal problems. The Viz Center is focused on processing and providing data sets to the world for humanitarian assistance disaster relief (HADR) events such as earthquakes, tsunamis, volcanoes, wildfires; as well as poverty, sustainable resources, and first responders in their daily efforts to serve the public. The focus is on being a connecting resource between the campus, community, and the world in bringing together solutions to problems that information technology, imaging, data fusion, visualization, and decision support can assist.

The Viz Center develops and deploys tools for homeland security and works closely with many of the homeland security academic and research groups on campus, at the SDSU Research Foundation (SDSURF), and regionally. The Viz Center provides the physical laboratory function for a DHS multi-year, grant-funded project to the SDSURF Regional Technology Center for the assessment of homeland security technologies, governance structures, and data needs on a regional basis. This effort has led to establishment of a national presence as SDSU becomes a leader in addressing homeland security issues. The Viz Center also collaborates with other institutions in Indonesia, China, Mexico, Africa, Australia, Canada, and Central Asia. We interact with companies to help deploy and develop technologies, especially for response to “all hazards” events.

Watershed Science Institute (WSI)
Trent W. Biggs, Director

The Watershed Science Institute (WSI) promotes collaboration among SDSU researchers and communities involved in the management and regulation of land and water resources. The objective of WSI is to improve the integration of science, policy, and management of watersheds by aligning research questions with critical management needs. The regional focus is on Southern California, including San Diego County, Imperial Valley, and the US-Mexico Border region, all of which face critical challenges related to water resources and water quality, drinking water supply shortages, climate change, water quality deterioration, impaired surface water bodies, soil erosion, and coastal contamination. More information can be found at http://watershed.sdsu.edu.

College of Sciences
Functions
The California State University regards the credit-bearing programs offered through Extended Education as integral parts of the institution. These programs are viewed as extensions of the institution’s educational services and are in concert with the institution’s overall mission and purpose. The programs and courses in Extended Education meet the standards of quality that the institution sets for its other programs and courses, with regard to resources, faculty, level of instruction, evaluation, and support services.

The College of Extended Studies at San Diego State University serves as the principal university liaison with the adult community and provides a wide variety of traditional and nontraditional, credit and noncredit, educational experiences designed to fit the life style and on-campus courses through Open University during the regular sessions, programs are developed and carried out within the divisions of Extension, Professional Development, American Language Institute, and Administrative Services. The programs are operated on a space available basis since state funds are not provided for Continuing Education activities.

Open University
Most regular on-campus courses are open to students through enrollment in Open University. Open University courses earn nonmatriculated resident credit and enrollment for students not seeking an advanced degree or advanced certificate and does not require formal admission to the university. Enrollment in courses through Open University is on a space available basis with the consent of the instructor. Students pay College of Extended Studies fees for these units. The course repeat policy applies to courses repeated through Open University. Consult the College of Extended Studies or the current Class Schedule for complete details on Open University qualifications, fees, and registration procedures. A maximum of 24 units earned through Open University, extension credit, and credit-by-examination combined may be used toward total units required for the bachelor's degree.

Open University classes may not be taken by the following:
1. Nonmatriculated foreign students (nonresidents from non-English-speaking countries) with a score of less than 550 on the English language test or its equivalent (80 iBT, 6.5 IELTS).
2. Foreign students with I-20 visas from another university.
3. SDSU matriculated students.
4. Disqualified students – Undergraduate students who have been disqualified from SDSU will not be allowed to attend Open University or classes through Special Sessions until one year from the date of their disqualification. Graduate students will not be allowed for one semester following disqualification.

Limitations on Open University, Special Sessions, and Extension Credit
Matriculated students may not enroll in courses through Open University.

Students who have not been admitted to the university may enroll in on-campus courses through Open University during the regular semester on a space available basis with the approval of the course instructor. Courses taken through Open University prior to admission to the university may be transferred to meet graduate degree requirements; however, the maximum extension credit which may be used toward SDSU bachelor’s degree requirements is 24 units. Courses offered through the College of Extended Studies for extension credit that are not offered on campus or are not required in a student’s program of study will appear on the SDSU transcript but are not transferable for graduate credit. Graduate students who enroll in these courses normally do so for personal enrichment only. Courses offered through the College of Extended Studies numbered 500-899 may be transferred with the approval of the graduate adviser and the dean of the Division of Graduate Affairs.

For more information, visit http://www.neverstoplearning.net.

American Language Institute (ALI)
The American Language Institute (ALI) is one of the most prestigious university-based English as a second language (ESL) programs in the US. The ALI is able to offer its students many different programs and courses such as academic, conversational, and business English; TOEFL, IELTS, GRE, and GMAT test preparations; study abroad; and teacher training. Programs offered by the ALI are as follows:

Business English for Global Practices Certificate (BEGP)
This program benefits students interested in learning more about American business practices while also improving their English communication skills. The BEGP program has flexible start dates and does not require an English language examination for admission. http://ali.sdsu.edu/begp.

English for Academic Purposes (EAP)
EAP is a full semester or summer term program for students planning to enter San Diego State University or other colleges or universities at the undergraduate level. Classes are offered in academic reading, writing, grammar, listening, note-taking, and speaking. Coursework is available in test preparation, pronunciation, and vocabulary. Students may also choose from over 30 elective course offerings. http://ali.sdsu.edu/eap.

Intensive English for Communication (IEC)
IEC is a four or more week program designed for students and professionals at all levels who want to develop and improve their practical English skills. Classes include eight hours of oral communication in addition to 12 hours of reading, writing, grammar, and listening per week. Students can choose from a variety of electives, pronunciation clinics, and sports and conversation clubs. http://ali.sdsu.edu/iec.

Pre-MBA and Pre-Master’s
This program prepares students for graduate degrees, including MS, MA, and MBA. Coursework includes GRE and GMAT test preparation. http://ali.sdsu.edu/premba.

Semester at SDSU
Students who meet SDSU’s English proficiency requirement may register for 9 to 12 units through ALI’s Semester at SDSU program. http://ali.sdsu.edu/semester.
College of Extended Studies

Social Entrepreneurship Certificate (SE)
Students in this certificate program study business trends and innovative entrepreneurial skills to learn how to create a business that will positively impact society. This program has flexible start dates. http://ali.sdsu.edu/se.

Teaching English as a Second or Foreign Language Certificate (TESL/TEFL)
The ALI offers a TESL/TEFL certificate program for those with little or no previous English language teaching experience who would like to teach English abroad. http://ali.sdsu.edu/testsite/certificate.

Customized Group Programs
The ALI offers customized English as a second language (ESL) programs for specialized adult groups in fields such as business, teacher training, law, health care, sports medicine, and others.

Services
All full-time students at the institute are offered visa and immigration support and assistance, housing assistance, organized volunteer activities, field trips to popular tourist attractions, advising for university entrance, health services, and orientation to university life. Many SDSU campus facilities and activities are also available to ALI students. For the most current and detailed information on how to apply, please see the ALI website at http://ali.sdsu.edu or call 619-594-5907.

Osher Lifelong Learning Institute
The Osher Lifelong Learning Institute offers instructor-led university inspired courses for people age 50 and better who are interested in meaningful intellectual and social engagement. Classes are held on the SDSU campus, with opportunities to attend special events and edventures (educational excursions) at various locations. Course topics include art, culture, current events, history, literature, music, religion, science, and more. Courses are intellectually stimulating without the pressure of grades, tests, or papers. For more information, call 619-594-2863, e-mail osher@mail.sdsu.edu or visit the website at: http://neverstoplearning.net/osher.

Study Abroad
Faculty-led study abroad programs are designed in close collaboration with SDSU’s academic colleges. Courses are taught by SDSU faculty members and take place in international locations during the summer, winter break, and spring break. Faculty-led study abroad programs offer SDSU resident credit and are open to SDSU students and the general public. For more information, call 619-594-9400, e-mail facultyledstudyabroad@mail.sdsu.edu, or visit http://neverstoplearning.net/studyabroad.

Certificate Programs
A complete listing of certificate programs is in the Curricula Summary section of this catalog.

College of Extended Studies Courses
In order to meet the needs of the adult community as well as matriculated students, the college provides a variety of courses and workshops. For the convenience of adult students most courses are scheduled in the evenings or on weekends, on campus, off campus, or online.

College of Extended Studies courses are offered each semester in a number of areas including education, business administration, public affairs, and the arts and sciences. Courses and programs are developed in cooperation with off-campus organizations, groups, and campus departments who have identified specific needs. Many courses are now offered online. These courses are listed on the Extended Studies website at http://www.neverstoplearning.net and in a digital Extended Studies Catalog produced three times a year. Some one-unit weekend courses are also offered throughout the year.

Professional Development
Professional Development programs provide business and industry with certificates and workshops that are responsive to the training and development needs of their employees. Participants are kept abreast of the latest process improvement and leadership techniques to help ensure they will add to the productivity and profitability of their organizations.

Certificates/Seminars/Workshops
Certificate programs provide career development to meet the needs of the workforce. Certificates are focused on topics relevant to key industry sectors and are recognized by most employers as a significant academic accomplishment. Examples include construction, contract management, human resources, hospitality, lean enterprise, marketing, meeting and event planning, and project management.

In addition, the college develops and coordinates seminars and workshops aimed at increasing the skills of the business professional. These seminars are taught by local and national seminar leaders chosen from the business and academic worlds for their expertise and outstanding teaching ability. Topics address a wide range of business subjects, such as leadership, supervisory training, marketing, project management, and cultural issues related to global competitiveness.

Professional Development Online (PDOL)
Meeting the needs of our students, the College of Extended Studies has developed a wide offering of professional development courses that can be completed on the Internet. Programs are available in key business areas such as leadership, finance, project management, and customer service. These online programs can be completed at the student’s own pace.

Tailored On-Site Training
The College of Extended Studies develops and implements on-site training programs that meet specific needs of the San Diego business community. The programs serve medium as well as large businesses and organizations with topics ranging from team building and communication skills to supervision, leadership, process improvement, and project management. Program advisers and professional consultants are drawn from the academic and business worlds and have extensive practical experience. The programs offer significant value for the time invested and are designed with quality and adaptability to the workplace.
Library and Information Access

Administration
Dean: Gale S. Etschmaier
Associate Dean: Patrick McCarthy
Director of Access Services and Human Resources: Sara Baird
Director of Budget and Fiscal Operations: Sallee Spearman
Director of Development: Michelle LaGrandeur
Director of Information Technologies and
Digital Initiatives: Mark Figueroa

Faculty
Emeritus: Carande, Cargille, Coleman, Dickinson, Dintrone, Fikes, Goodwin, Goyne, Harkányi, Harris, Johns, Leerhoff, McPhail, Palsson, Pease, Perkins, Puerto, Rogers, Sonntag, Sullivan, Turhollow, White, Wilson
Librarians: Baber, Harley, Jackson, Muroi, Salem, Savage, Su
Associate Librarians: Bliss, Jeffery, Kiczek, Lamont, Payne, Ray, Rhodes, Tumlin, Weston
Senior Assistant Librarians: Culbertson, Houk, Jarocki, Lanthorne, Nielsen, Wong-Welch

General Information
Located in the center of campus, Library and Information Access empowers students and faculty to explore ideas, collaborate with colleagues, develop projects, create knowledge, and cultivate academic success. The library is comprised of two buildings, the five-story Love Library and the Library Addition, with its landmark dome. Spanning more than 500,000 square feet, with nearly 4,000 seats for study and research, the library’s importance to students, faculty, staff, and individuals living in the San Diego region is documented by more than 2.2 million annual visits.

Hours and Access
The library is open to the public except on holidays, recess dates, and between midnight to 7:00 a.m. When the main library is closed, the 24/7 Study Area is open only to current SDSU students, staff, and faculty. Hours are posted online or call 619-594-6721. The library Computing Hub operates an extensive computer laboratory with over 300 computers, both Mac and PC. Resources include a help desk and access to a variety of applications. BuildIT, a makerspace with 3-D scanning and printing for students is located within the Hub.

Library Print Services also offers copying, poster printing, and instruction on SDSUcard use. Students can borrow a variety of equipment through the library, such as cameras, laptops, cables, and more.

The Wells Fargo Financial Laboratory, staffed by the College of Business Administration, is hosted in the library with 12 Bloomberg terminals for real-time financial literacy education for interested students. Fifty group study rooms can be found throughout the library. Reservations are required for rooms with technology, such as large collaborative monitors or presentation practice equipment. There are also food friendly areas, quiet study locations, and a coffee cart.

Library and Information Access

University tutoring programs are hosted by the library in the Math Learning Center and the Writing Center.

Library Services
Librarians provide research assistance in person, telephone, e-mail, and online chat. They serve as subject specialists providing in-depth research support for each major on campus. The library has a comprehensive teaching program, which includes course-related instruction, online tutorials, blogs, videos, and tours.

Library Holdings
The library’s holdings exceed two million print titles with over 776,000 electronic books. With robust access to journals, the library transmits over one million articles annually. We maintain 23 unique collections of digital materials, having scanned over 90,000 items including, maps, photos, audio and video recordings, archival papers, and more. The library is also a depository for United States and California government publications.

Requests for books not available at SDSU can be made online or at an information desk. Partnerships with local Circuit libraries, the global catalog WorldCat, and interlibrary loans support the delivery of items.

Requests for books not available at SDSU can be made online or at an information desk. Partnerships with local Circuit libraries, the global catalog WorldCat, and interlibrary loans support the delivery of items.

For help finding materials, students can consult staff at service desks located in Research Services, Circulation/Course Reserves, Media Center, and Special Collections and University Archives.

Special Collections and University Archives
Special Collections and University Archives houses rare, unique, and valuable books, periodicals, manuscripts, and documents which require care in handling. Ephemera, such as art prints, etchings, memorabilia, photographs, and postcards are kept in this area. Significant holdings include an extensive science fiction collection, comics and zines, and historical archives of the university. Noteworthy regional history collections include items from the civil rights era and the Chicano movement.

Students and researchers are encouraged to make use of these items in the adjoining Reading Room.
Imperial Valley Campus

General Information

The Imperial Valley Campus is a branch campus of San Diego State University serving the people of southeastern California. It is accredited as an integral division of SDSU and operates under the same academic calendar. Established in 1959, by an act of the State legislature, the campus offers the last two years of undergraduate education, graduate programs, and fifth year credential programs for teacher preparation. In addition, the Imperial Valley Campus offers first and second year undergraduate education through the Imperial Valley University Partnership, an innovative collaboration between SDSU-IV, Imperial Valley College, and the Imperial County Office of Education, to students planning to major in criminal justice, history, liberal studies, psychology, public administration, or Spanish (available for students who have received a score of 3 or higher on the Spanish Language Advanced Placement examination). Imperial Valley Campus faculty are multinational in their classroom orientation and background. Smart classroom technology provides students the opportunity to participate in some classes broadcast live from the campus in San Diego. The Imperial Valley Campus schedules many of its classes in three-hour blocks so that students who work full-time can earn 9-12 units a semester by attending classes once or twice a week. Some classes are also offered on the weekends.

Student clubs, student government, lectures, art exhibits, and musical events enhance education for the approximately 1,000 students at SDSU – Imperial Valley Campus.

Location

Imperial County has a population of approximately 180,000 people. SDSU-IV is located on two sites, Calexico and Brawley. Calexico is 110 miles east of San Diego, 55 miles west of Yuma, Arizona, and 120 miles south of Palm Springs. Interstate 8 and State Highways 111 and 86 connect the County to the rest of the country and state. The Calexico location, six blocks from the Mexican border, provides the opportunity for involvement in a bicultural environment. Just across the border is Mexicali, a city of more than one million people. The Brawley location is 24 miles north of the Calexico site. It is surrounded by rich agricultural fields and a rapidly emerging renewable energy industry.

Curricula Offered

Master's Degrees
- Master of Arts in Education
- Concentration in Educational Leadership
- Concentration in Elementary Curriculum and Instruction
- Concentration in Secondary Curriculum and Instruction
- Master of Social Work (in cooperation with the San Diego campus)

Bachelor's Degrees
- Criminal Justice (B.S.)
- English (B.A.)
- History (B.A.)
- International Business: Latin America and North America emphases (B.A.) (Currently not admitting new students)
- Latin American Studies (B.A.)
- Liberal Studies (B.A.)
- Mathematics (B.A.)
- Psychology (B.A.)
- Public Administration (B.A.)
- Registered Nurse - Nursing Program (B.S.; in cooperation with the San Diego campus)
- Social Science (B.A.)
- Spanish (B.A.)

Minors
- English
- History
- Linguistics
- Mathematics
- Political Science
- Psychology
- Public Administration
- Spanish

Certificate Programs
- Business Administration (Currently not admitting new students)
- Public Administration
- Single Subject Mathematics

Teaching Credentials
- Basic
- Multiple Subject
- Multiple Subject with Bilingual Authorization: Spanish
- Single Subject
- Single Subject with Bilingual Authorization: Spanish

Specialist
- Administrative Services
- Special Education (in conjunction with the College of Education) Mild/Moderate, Moderate/Severe.

For further information on any of these degrees, see the SDSU – Imperial Valley Campus Bulletin.
Imperial Valley University Partnership

Imperial Valley University Partnership (Freshman Program) is an innovative educational partnership between San Diego State University-Imperial Valley, Imperial Valley College, and the Imperial County Office of Education. IVUP accepts students every fall. It is an accessible, affordable, high quality educational program with a clear path to a bachelor’s degree in four years. The program is designed to provide students an enriched academic experience. It employs features proven to increase student success including a cohort structure, guaranteed access to classes, student and parent orientations, and a powerful emphasis on student advising and mentoring. IVUP offers majors in criminal justice, history, liberal studies (mathematics, science, and literacy), psychology, public administration, and Spanish (available for students who have received a score of 3 or higher on the Spanish Language Advanced Placement examination); and will include additional majors in the future. The Imperial Valley University Partnership accepts admission applications for fall from October 1 to November 30 of the previous year. For additional information, visit http://www.ivup.org.

Exchange Programs and Study Abroad

Graduate and undergraduate students at the SDSU-Imperial Valley Campus can enhance their education and cultural awareness by taking part in several of the many opportunities available to study abroad.

SDSU offers over 350 education abroad programs in more than 50 countries. In addition to SDSU’s own study abroad programs, students may participate in the California State University International Programs; the International Student Exchange Program (ISEP) Consortia; and other independent programs.

Research Centers

Center for Individual and Professional Skills Development

Suzanna Fuentes, Director

The Center for Individual and Professional Skills Development at San Diego State University-Imperial Valley Campus offers community programs to the Imperial and Mexicali valleys. The center offers English as a second language (ESL) courses in the local community and a teacher training program in Mexico. Additionally, the Center for Individual and Professional Skills Development presents annual conferences including the Bi-national Conference on Education and the Bi-national Youth Leadership Conference.

USDA-HSI and SDSU-Imperial Valley Campus Partnership

Roberto González, Jr., Regional Director for Southern California and Arizona

The USDA-HSI national program promotes partnerships and collaborations between U.S. Department of Agriculture (USDA) agencies and Hispanic Serving Institutions (HSIs). The partnership cultivates knowledge and develops leaders by linking USDA and higher education. For more information, stop by the Administration Building at SDSU Imperial Valley Campus.

Facilities

The Calexico campus is located on an eight-acre city block in the heart of Calexico’s civic center along the Mexican border. The campus facilities create a pleasing architectural harmony of old and new structures surrounding a spacious central lawn area, the Rollie Carrillo Quad. Adjoining the quad, the library, Joseph Rodney Auditorium, and John Stepling Art Gallery provide academic and cultural resources for the entire community. Other buildings include classroom buildings, the administration building, faculty offices, computer labs, a bookstore, and the Student Union. The Brawley campus is a showcase of the latest instructional technologies, including a computer classroom, a video conference classroom, full computer and Internet presentation capabilities in all classrooms, as well as a computer laboratory for students to research and study individually or in groups. The Brawley campus is also the site of the Center for Energy Sustainability and its numerous renewable energy projects.
SDSU IVC Campus – Calexico
720 Heber Avenue
Calexico, CA 92231
760-768-5500

SDSU-IVC Building Legend
1. North Classroom
2. Administration
2A. Art Gallery
3. Auditorium
4. Classrooms
5. Library
5A. Library Addition
6. Physical Plant
7. Computer Bldg./Campus Store
8. Student Affairs
9. Faculty Offices East
10. Faculty Offices West
11. CLAT Classrooms
20. Student Center
Imperial Valley Campus – Brawley Campus Map

SDSU IVC Campus – Brawley
560 East Highway 78
Brawley, CA 92227
760-351-0806