PART THREE

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

As part of Graduate and Research Affairs, the Division of Graduate Affairs (DGA) is the administrative unit responsible for post-baccalaureate and graduate study at San Diego State University. The DGA is composed of the academic units that offer graduate study in the university. The faculties of these units provide programs in over 70 fields of study leading to advanced degrees in the arts and sciences and in professional areas at both the masters and doctoral levels as well as to a wide variety of programs leading to advanced certificates and credentials. The Graduate Council, on which sit representatives of the seven academic colleges of the university, has been delegated university-wide jurisdiction over graduate study. The council’s responsibilities are broadly defined and include the development of policies on such matters as graduate programs and curricula, graduate student affairs, and graduate student scholarship.

The dean of the Division of Graduate Affairs is the chief administrative officer of the division and serves as chair of the Graduate Council. The graduate dean has general responsibility for implementing the policies of the Graduate Council and for the development, improvement, and administration of all post-baccalaureate study.

Graduate Study at San Diego State University

The year 2000 marked the fiftieth anniversary of the award of the first graduate degrees at San Diego State University. Those Master of Arts degrees were limited at first to fields such as education, English, history, and philosophy and directly supported the historical mission of the institution to train teachers to serve the regional community. Although the number of degree fields in the arts and sciences increased significantly in the 1950s, most continued to be designed for students planning to enter the “teaching service.” As the decade ended, however, the establishment of what was to become the California State University (CSU) prompted a notable departure from the earlier academic traditions.

In 1960, the California State Legislature organized a number of state colleges into an integrated system and, in an educational Master Plan for the State, defined the relationship of the new system to the University of California and to the State’s network of community colleges. Although the new system was to continue its mission of training teachers and providing a broad range of undergraduate degree opportunities, each campus was invited to develop its own institutional characteristics within that framework. At what was then San Diego State College, the faculty embraced a model that emphasized the necessarily close relationship between teaching and faculty and student research. This orientation required the broadening of the focus and purpose of advanced study, and over the following decades, scholarly research and graduate education came to be one of the distinguishing characteristics of San Diego State within the CSU. Indeed, by the time San Diego State College was designated a university in 1971, graduate study over a wide range of academic and professional disciplines had become an integral part of the institution’s central mission.

A growing and increasingly diverse student population helped to stimulate the rapid growth of graduate programs in the years after 1960. The number of advanced degree programs at the master’s level quickly grew to cover more than fifty fields of study in the arts and sciences. Professional degrees appeared in areas such as business, city planning, social work, public administration and public health. The Master of Fine Arts along with the Master of Music provided a terminal degree for students interested in pursuing careers in those fields.

Equally important was the recognition that the master’s degree in those years was becoming an entry-level requirement in many fields of employment. This not only stimulated the constant updating of traditional programs but also led to the design of new programs that sought to address specific professional and academic needs. A degree program in computational science emerged as a discrete field of study as did a program for students interested in the processes involved in the transfer of technology from the academy to the broader community. The development of concurrent degree programs was also a response to changing societal needs. The School of Social Work, for example, established a program that led to the award of degrees in both social work and law. The nursing program provided a Master of Science degree that also qualified the student for certification as a nurse practitioner. The increasingly global interest of students and faculty resulted in a program that combined a degree in Latin American Studies with the Master of Business Administration. A network of international exchange agreements provided both students and faculty with scholarly opportunities around the world. Affiliation agreements gave graduate students access to some of the specialized educational resources of regional universities such as the University of California at San Diego. By 2004, the university had instituted three distance learning programs; affecting the educational opportunities of the twenty-first century.

The teacher-scholar model led inevitably perhaps to a faculty initiative to establish doctoral programs, and the first program leading to the degree Doctor of Philosophy began with chemistry in 1965. Today, 16 Ph.D. programs serve several hundred students. Some of these doctoral programs are in traditional academic disciplines while others had a more professional orientation such as in public health, clinical psychology, and language and communicative disorders. True to its historical tradition of emphasizing study in the discipline of education, the university offers the Ph.D. in Mathematics and Science Education and the Ed.D. in the rapidly changing field of Educational Technology. By many measures, San Diego State University has become a competitive national doctoral research university. During the decade of the 1990s, the faculty generated about one billion dollars from extra-mural sources in support of student and faculty research and professional activity. The university ranks thirty-third in the nation in the number of advanced degrees awarded. SDSU will continue to develop programs to address issues of societal concern as they arise. Inevitably, other programs will disappear as circumstances and intellectual questions change. The result is a dynamic curricular and intellectual world and one of enormous academic and professional opportunity.
Graduate Study in the Summer Term
San Diego State University offers state supported as well as special session courses in the various terms that make up the summer term. Graduate students may earn residence credit that satisfies requirements for advanced degrees, credentials, or advanced certificates by successfully completing such courses during the summer. Enrollment in state supported courses requires that a student have been admitted to the university in an appropriate graduate category. Students who have not been admitted to the university may be eligible to enroll for such courses through Open University. Enrollment in special session courses does not require admission to the university. Not more than nine units combined of coursework taken in Open University or special sessions prior to admission to an advanced degree or certificate program will be acceptable subsequently on a program of study. For more information about the summer term, see the SDSU Summer Session Class Schedule.

Students taking coursework for a degree through summer programs only must apply to the university and be admitted with classified standing before completing more than 12 units. Students pursuing an advanced degree in summer only must attend for a minimum of three summers to complete a degree.

Graduate Study for Foreign Students
The facilities of San Diego State University for graduate study are available to qualified graduates of foreign universities on the same basis and under the same regulations as apply to graduates of colleges and universities in the United States. Admission procedures for foreign graduate students are stated in the section on Admission of Graduate Students in this bulletin.

Veterans and Graduate Study
San Diego State University is approved to train veterans under the G.I. Bill. Veterans who are interested in graduate work should visit the SDSU Veterans Center located in Education, Room 151, for information and counseling regarding veterans’ benefits prior to the date of registration.

E-Mail and the Internet
The SDSU Office of Financial Aid and Scholarships uses e-mail and the Internet to communicate with aid applicants about documentation needed, disbursement holds, and awards. The Office of Financial Aid and Scholarships homepage and secure Web site, AidLink, have been enhanced to streamline the application and award process for SDSU students. Go to SDSU’s Web site at http://www.sdsu.edu/portal, and select E-Mail/Address Update to make sure there is a valid e-mail address on record for you with the Office of the Registrar. Use AidLink at http://www.sdsu.edu/financialaid to view your personal financial aid information, download and print documents you need to submit, activate your student loan, and more.

Graduate Teaching Associates
Appointments as graduate teaching associates, known more familiarly as TAs, provide students the opportunity to participate directly in the teaching activities of the university. Indeed, faculty members in many programs consider such appointments an integral part of the academic curriculum for their graduate students. Under the supervision of senior faculty, TAs provide direct instruction to undergraduate students, primarily at the lower division level.

Appointments as graduate teaching associates may be obtained by qualified graduate students pursuing a master’s degree in the areas of anthropology, art, astronomy, biological sciences, business administration, chemistry, climate change, computer science, economics, educational technology, engineering, English, exercise and nutritional sciences, French, geography, geological sciences, history, linguistics, mathematical sciences, microbiology, music, physics, psychology, rhetoric and writing, sociology, Spanish, speech, language, and hearing sciences, television, film, and new media production, and theatre arts. In addition, all doctoral programs offer such appointments.

Qualifications for appointment include admission to San Diego State University with classified or conditionally classified graduate standing for the purpose of obtaining an advanced degree. Appointment is for a period of either one semester or the academic year. Reappointment following an appointment of one semester or one academic year is dependent upon satisfactory performance in graduate studies, as prescribed by the Division of Graduate Affairs, departmental need for the continued service in the department, and upon satisfactory teaching performance.

The combined teaching assignment and coursework permitted during one semester is 15 units unless an excess of this amount is authorized by the graduate dean.

Information concerning an appointment as a graduate teaching associate may be obtained from the head of the department, school, or college in which the applicant wishes to obtain the advanced degree. The Division of Graduate Affairs also publishes A Handbook for Graduate Assistants and Graduate Teaching Associates available at http://www-rohan.sdsu.edu/~gra/grad/gradhandbook.html.

Graduate Assistants
Graduate assistants (GA) provide instructionally related services by tutoring and conducting advising. Alternatively, GAs may be assigned duties that directly support the research activities of the faculty.

Graduate assistants not involving teaching duties and permitting up to 20 hours of service per week for a full-time appointment are available in most of the departments and schools. Qualifications for graduate assistants include admission to San Diego State University with classified or conditionally classified graduate standing. Normally, graduate assistants must enroll in and complete each semester at least six units of coursework listed on the official program of study.

Appointment to a graduate assistantship is for a period of either one semester or the academic year. Reappointment or continuation of an appointment is dependent upon satisfactory performance in graduate studies, as prescribed by the Division of Graduate Affairs, satisfactory completion of assigned duties, and upon departmental need for the continued service in the department.

Information concerning an appointment as a graduate assistant may be obtained from the head of the department, school, or college in which the applicant wishes to obtain the advanced degree. For further information consult A Handbook for Graduate Assistants and Graduate Teaching Associates available at http://www-rohan.sdsu.edu/~gra/grad/gradhandbook.html.

Student Assistants
Graduate students are eligible for employment as student assistants who perform a wide variety of tasks supporting faculty and staff across the university. Assistants are paid by the hour and are restricted to assignments not to exceed 20 hours per week. Students may apply for this employment through the department chairs or program directors. In addition, the Office of Career Services located in Student Services, Room 1200, maintains a listing of the positions available

Research Assistants
The university offers some graduate students part-time employment as research assistants. Research assistants work directly with faculty in a laboratory or other research facility in the health, physical, and social sciences. Research assistants are employees of the SDSU Research Foundation, but they are generally hired through departmental faculty seeking assistance on research programs. Students may inquire about such appointments through the chair or director of the respective science department or through the Office of Human Resources of the SDSU Research Foundation. Those interested in adding their names to a list of candidates for current or future part-time openings may obtain application materials from the San Diego State University Research Foundation, Gateway Building, 2220 Campanile Drive, San Diego, CA 92182-1945. Further information is also available on the university Web site.
California Pre-Doctoral Program

The program is designed to increase the pool of university faculty by supporting the doctoral aspirations of individuals who are current upper division or graduate students in the California State University, economically and educationally disadvantaged, interested in a university faculty career, U.S. citizens or permanent residents, and leaders of tomorrow. Junior, senior, and graduate students in the CSU, especially those from environments where university teaching is not a common career goal, have unique opportunities to explore and prepare to succeed in doctoral programs. Working one-on-one with faculty members from both CSU and doctoral-granting institutions, students receive funding for activities such as participation in a summer research internship program at a doctoral granting institution to receive exposure to the world of research in their chosen field, visits to doctoral-granting institutions to explore opportunities for doctoral study, and travel to national symposiums for professional meetings in their chosen field. Other related activities include membership in professional organizations, journal subscriptions, graduate school application, and test fees. For information regarding the California Pre-Doctoral Program contact the campus coordinator in the Division of Graduate Affairs or go to [http://www.calstate.edu/PreDoc/advisors.shtml](http://www.calstate.edu/PreDoc/advisors.shtml).
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 CSU system-wide program, the California State University Program for Education and Research in Biotechnology (CSUPERB) provides vision, leadership, and support for biotechnology education and research throughout the CSU to promote economic development in California. 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, engineering, agriculture, business and computer science departments and programs. CSUPERB organizes the annual CSU Biotechnology Symposium, sponsors industry-responsive curriculum including Professional Science Masters programs, 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 award to develop biotechnology industry responsive curricula.

CSUPERB administers awards and grants programs for CSU biotechnology students and faculty aimed at integrating discovery, learning, and professional workforce development to meet the evolving needs of the biotechnology industry and related life science endeavors. 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 Faculty-Student Collaborative Research Seed Grants, the Entrepreneurial Joint Venture Matching Grants, and Biotechnology Programmatic Development Grants. In combination these programs award over $650,000 to CSU faculty and students yearly. Three CSUPERB core facilities offer services at reduced rates for CSU faculty and students: the Microchemical Core for DNA synthesis and sequencing at SDSU, the CMoIS Core for x-ray crystallography at CSU Fullerton, and the Facility for Elemental Micro-Chemical Analysis (FEMOA) at CSU Long Beach offering elemental and molecular analysis technologies.

CSUPERB programs and activities are administered by an Executive Director, a strategic planning council composed of 10 faculty and deans from CSU campuses, and a faculty consensus group composed of four faculty representatives from each CSU campus. CSUPERB is overseen by a Presidents’ Commission composed of CSU presidents from CSU East Bay, CSU Los Angeles, Cal Poly San Luis Obispo, Humboldt State University, San Diego State University, and an Executive Vice Chancellor. The program Web site is http://www.calstate.edu/csuperb/

Mount Laguna Observatory

Paul B. Etzel, Director

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 Web site is http://mintaka.sdsu.edu.

Southwest Consortium for Environmental Research and Policy (SCERP)

D. Rick Van Schoik, Director and Paul Ganster, Chair of Management Committee

SCERP is a consortium comprised of five U.S. universities (including San Diego State University, Arizona State University, New Mexico State University, University of Texas at El Paso, and University of Utah) and five member Mexican universities (El Colegio de la Frontera Norte, Universidad Autónoma de Baja California, Instituto Tecnológico y de Ciencias de la Educación of Ciudad Juárez, and Instituto Tecnológico de los Altos de Durango). The consortium is governed by a management committee consisting of one representative from each member university. Paul Ganster, Director of SDSU’s Institute for Regional Studies of the Californias, is the SDSU representative and chair of the SCERP management committee. In addition, SCERP’s Office of the Managing Director is located at SDSU and utilizes space provided by the SDSU Research Foundation. The director of that office reports to the chair of the SCERP management committee.

Since its inception in 1989, the Southwest Consortium for Environmental Research and Policy (SCERP) has conducted more than 400 Mexican and American research projects to address the acute air, water, and health problems plaguing the U.S.-Mexican border region. SCERP’s contribution to this research has helped facilitate numerous solutions to critical environmental problems in this unique region. The 10-university consortium has also conducted briefings for policymakers, border communities, public officials, and business and trade associations. Through these and other efforts, the consortium is pioneering a model of binational cooperation that proves two very different countries can achieve success together when critical environmental resources are at stake.

Over the years, SCERP has supported approximately $7.5 million in projects at SDSU in the colleges of Arts and Letters, Sciences, Health and Human Services, and Engineering and at the Imperial Valley Campus of SDSU. This funding has strengthened collaborative ties with Mexican and U.S. SCERP universities. The SCERP project has been of benefit to SDSU students through increased opportunities for international applied research and interaction with Mexican faculty and
Division of Research Affairs

students, enrichment of curriculum, and greater access to research materials about the border region. In addition to undergraduate participation, SCERP projects regularly employ graduate students and have funded approximately one dozen Master’s theses and one Ph.D. dissertation. It directly supports SDSU priorities including applied research and community outreach, the developing Environmental Science Program, and internationalization of the university. SCERP-supported research projects at SDSU regularly produce results of use to State of California agencies, including the Water Resources Control Board, CalEPA, Air Resources Board, Health and Human Services, and Resources Agency. Elected officials and their staffs, including joint legislative committees frequently use results of SDSU-SCERP applied research projects. Regional and community agencies likewise utilize expertise on border environmental issues developed through SCERP-supported activities.

SCERP programs also address long-term concerns of U.S.-Mexican border communities. Through the Border Institute think tank series, organized primarily by SDSU, SCERP has brought together members of Congress; border subject experts; decision makers, leaders, and planners from border communities; border business representatives; and other stakeholders from border cities to discuss important issues concerning the future state of the environment in the U.S.-Mexican border region. Initiated in 1996, the series has dealt with such topics as border demographic projections, infrastructure needs, energy demands, binational water management, the state of the border and the health of its citizens, and binational ecosystem conservation.

Through its programs and projects, SDSU-SCERP addresses critical environmental issues in the California-Baja California Border Region and helps develop solutions to the region’s problems. The projects enhance binational cooperation, build regional capacity by training students as the next generation of leaders, leverage funding, translate technical material, and disseminate information to the general public.

For more information about SCERP activities at SDSU, please contact Dr. Paul Ganster, e-mail: pganster@mail.sdsu.edu or Ms. Angélica Villegas, e-mail: scepca@mail.sdsu.edu. The Web site is http://www-rohan.sdsu.edu/~isc/scerp.htm.

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 Web site is http://gra.sdsu.edu/research/coi.

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 Web site is http://gra.sdsu.edu/research/iacuc.

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 IBC is a committee of the University Research Council appointed by the associate vice president for research. Graduate and Research Affairs, Division of Research Affairs provides administrative support to the IBC. The IBC membership is determined based on federal guidance and includes a biosafety officer, a veterinarian, scientists, and community members.

For information regarding SDSU’s Biosafety Program, visit the Environmental Health and Safety Web site at http://bfa.sdsu.edu/ehs/ or contact the Institutional Biosafety officer at 619-594-2865. 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 Web site is http://gra.sdsu.edu/research/ibc.

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 Web site at http://gra.sdsu.edu/research/irb; e-mail irb@mail.sdsu.edu, or call 619-594-6622.

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. Alvin Cox, Professor of History; Drs. James Flood and Diane K. Lapp, Professors of Education; Dr. Maurice S. Friedman, Professor of Religious Studies; Dr. Arthur Getis, The Stephen and Mary Birch Foundation Chair in Geographical Study; Dr. Dipak K. Gupta, Professor of Political Science; Dr. Robert Kaplan, Professor of Psychology; Dr. E. Percil Stanford, Professor of Social Work; Dr. Donna J. Thal, Professor of Speech, Language, and Hearing Sciences; Dr. Helen Wallace, Professor of Public Health; Dr. David Ward-Steinmann, Professor of Music; Dr. Catherine Yi-yu Cho Woo, Professor of Chinese; Dr. Edward P. Riley, Professor of Psychology; Dr. Melbourne F. Hovell, Professor of Public Health; Dr. William G. Tong, Professor of Chemistry and Biochemistry; Dr. Eugene A. Olevsky, Professor of Mechanical Engineering; Dr. Walter C. Oechel, Professor of Biology; Dr. Mark A. Sussman, Professor of Biology; Dr. John F. Elder, Professor of Public Health; and Dr. James F. Sallis, Professor of Psychology. The Web site is http://www-rohan.sdsu.edu/~gra/grad/research/researchlectures.html.
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 Web site 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 Web site at http://gra.sdsu.edu/grad/research/intproptechdev.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 Web site at http://gra.sdsu.edu/research/srs.

Faculty Recognition Committee
The Faculty Recognition Committee monitors criteria for significant national awards, and matches those criteria with the accomplishments of SDSU's most productive faculty, to promote them for such awards. This committee is primarily composed of associate deans because of their strong service commitment and overview of faculty from throughout their respective colleges.

Technology Transfer Office
The Technology Transfer Office (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. This office also reports to the SDSU Research Foundation. For more information, call 619-594-0516 or visit the TTO Web site at http://tto.sdsu.edu.
administration

Dean: Paul Wong
Associate Dean: Eniko Csokay (Interim)
Associate Dean: Linda D. Holler
Assistant Dean for Student Affairs: Leslie S. Johnson
Director of Development: Nancy Lemkie
Director of Resource Management: Lesley Bryant

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.

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.), 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.), Latin American Studies (M.B.A./M.A.; jointly with the College of Business Administration), Latin American Studies (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.).

Preprofessional Curriculum

Prelegal

Certificate Programs

Children's/Adolescent Literature, Computational Linguistics, Geographic Information Science, Professional Writing, Spanish Court Interpreting (available at Imperial Valley Campus only), Spanish Translation and Interpretation Studies, Teaching English as a Second or Foreign Language (TESL/TEFL), Teaching of Writing, United States-Mexico Border Studies.

Research Centers and Institutes

Africana Center for Cultural Literacy and Research

JoAnne Cornwell and Francis Nesbitt, Co-Directors

The Africana Center for Cultural Literacy and Research provides independent and collaborative projects (across a broad international spectrum of academic programs and new college initiatives to educate students, faculty and staff; research opportunities for students and faculty; and culturally enhanced teaching opportunities for SDSU faculty. The center’s programs also provide venues for community service which focus on Africana cultural groups.

For more information regarding the Africana Center, contact Dr. Cornwell at 619-594-4131.

Center for Asian and Pacific Studies

Lei Guang, 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 and minor in Asian studies as well as the graduate program.

Bread and Roses Center

Bonnie K. Scott, Director

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 center brings activists, artists, and scholars committed to feminist social change to SDSU to network with colleagues and students on the campus and in the San Diego community, and to reflect upon and reorient their practices. Visiting residents of the center benefit from the opportunity for rejuvenation. The center also supports a strong international community of artists, students, scholars, and community activists working to achieve equality for women. The center hosts such activities as colloquia, festivals, readings, exhibitions, and special events. For those wishing to expand their knowledge of women's movements, the center provides a forum for courses, guest lectures, and workshops. The center enhances two missions of SDSU: promoting internationalization of the curriculum and students’ learning experiences, and reaching out to, and positively interacting with, the larger San Diego community.

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 Web site at http://www-rohan.sdsu.edu/dept/WSweb/bread_roses.html.
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 Web site at http://www.rohan.sdsu.edu/~csi/index.htm.

Confucius Institute
Paul Wong, Executive 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 Hope, Piotr Jankowski, Douglas 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
Darrel Moellendorf, 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 Web site 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 dynamic and evolving calculus of nations, cultures, languages, and perspectives. The center is a vehicle for fostering appreciation of Europe, the societies and cultures within its geographical boundaries, and the ideas that make up various European realities. The center will develop grant funded programs (e.g. colloquia, symposia, etc.), collaborative teaching and research opportunities, faculty exchanges, internship leads for partner programs, workshops, and related activities.

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.

Center for Health Equity Research and Policy (CHERP)
Brian K. Finch, Director

The Center for Health Equity Research and Policy (CHERP) is housed in the Department of Sociology and brings together students, faculty, and community members to promote research and dissemination with respect to population health and health disparities towards the end of fostering health equity for disadvantaged populations. The center brings together faculty from several SDSU colleges, including, the College of Arts and Letters, the College of Health and Human Services, and the College of Sciences.
The purpose of CHERP is to generate cutting-edge research that both describes and explains the existence of health disparities in racial/ethnic minority and socio-economically disadvantaged populations. Further, relying on community collaborations, we seek to translate our research into practicable health alternatives using evidenced-based strategies. The ultimate goal of CHERP is to contribute to the understanding and elimination of health disparities that are the direct result of social inequalities which disproportionately affect disadvantaged and marginalized sub-populations across the United States, with a concerted and focused effort in the San Diego region.

The center promotes the following activities and infrastructure:
- A collaborative consortium of scholars and community members;
- An accessible database of relevant health surveys and data linkages;
- A collection of relevant statistical methodologies and their applications;
- A working paper series reflecting preliminary research results and findings;
- A periodic seminar series—open to the campus and local community;
- Links to published research findings;
- Translation and dissemination of research findings to the local and national media;
- A health equity community action board.

The center Web site is: http://www.rohan.sdsu.edu/~cherp.

Charles Hostler Institute on World Affairs
Paul Wong, Director

The Charles Hostler Institute on World Affairs, founded in 1942, is beginning its 65th year at San Diego State University. It is the second oldest organization of its kind west of the Mississippi River. Its purpose is to make available to the SDSU community, and to the people of Southern California, a forum for the discussion of critical topics in international affairs. This purpose is accomplished primarily by inviting distinguished authorities to address the institute on issues of contemporary international import. The institute has hosted ambassadors to the U.S. from Australia, Belgium, Brazil, China, Czechoslovakia, Finland, Germany, Greece, Hungary, India, Italy, Jordan, Korea, Malaysia, Mexico, Netherlands, Nigeria, Pakistan, Singapore, Sweden, Syria, Thailand, and Yemen. Distinguished speakers have included Nobel Laureates Willard Libby, Linus Pauling, and Harold Urey, as well as Professors Hans Morgenthau and Robert Scalapino, British Ambassador to the United Nations Lord Caradon, American statesman Ralph Bunche, California Governor Pat Brown, French diplomat and author Romain Gary, Austrian Chancellor Kurt Schuschnigg, Russian Premier Alexander Kerensky, and USAF Chief of Staff and SDSU graduate General Merrill McPeak. American politicians, military and government officials, diplomatic and governmental representatives from Africa, Asia, Europe, Latin America, and the Middle East have also participated in institute sessions over the last 60 years.

Institute events are held on campus, in Hardy Tower, Room 140 from 7-9:30 p.m. on Thursday evenings, during the spring semester. For more than half a century, the institute has functioned according to the motto – AUDIATUR ET ALTER A PARS (Let The Other Side Be Heard). Given today's pressing problems of international affairs and the obligation of an excellent university to help inform students, faculty, and the wider community regarding these problems, the Charles Hostler Institute on World Affairs plays a critical role in the educational mission of SDSU.

Center for International Business Education and Research (CIBER)
Mark J. Ballam, Managing Director
Siv Lang Lim, Program Coordinator

The Center for International Business Education and Research (SDSU CIBER) is one of 31 national centers of excellence in the United States and was established in 1989 under a grant from the U.S. Department of Education. The center is housed in the College of Business Administration.

SDSU CIBER serves as a catalyst to advance: (1) interdisciplinary programs which incorporate foreign language and international studies training into business, finance, management, communications systems, and other professional curricula; (2) interdisciplinary programs which provide business, finance, management, communications systems, and other professional training for foreign language and international studies faculty and advanced degree candidates; (3) evening or summer programs available to members of the business community and other professionals designed to develop or enhance international skills, awareness, and expertise; (4) collaborative programs, activities, or research involving other institutions of higher education, local educational agencies, professional associations, businesses, firms or combinations thereof, to promote the development of international skills, awareness, and expertise among current and prospective members of the business community and other professionals; (5) research designed to strengthen and improve the international aspects of business and professional education and to promote integrated curricula; and (6) research designed to promote the international competitiveness of American businesses and firms, including those not currently active in international trade.

To learn more, visit the SDSU CIBER Web site at http://www.sdsu.edu/ciber.
Center for Islamic and Arabic Studies
Ghada Osman, 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, contact Ghada Osman at gosman@mail.sdsu.edu or visit the Web site at http://www.cias.sdsu.edu.

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. Since 1976, the Center for Latin American Studies has been designated a National Resource Center for Latin American Studies by the United States Department of Education and funded through a Title VI grant, in consortium with the Center for Iberian and Latin American Studies at the University of California, San Diego. CLAS, along with CIBER and LARC, is one of three Title VI funded centers on the San Diego State University campus. In conjunction with this award, the center administers programs that provide opportunities for learners of Arabic, Persian, 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 Spanish, Portuguese, and Mixtec; 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 Web site at http://latinamericanstudies.sdsu.edu.

Lipinsky Institute
Risa Levitt, Director

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

National Center for the Study of Children’s Literature (NCSCL)
Jerome J. Griswold, Director

Situated in the Department of English and Comparative Literature, the National Center for the Study of Children’s Literature (NCSCL) reflects SDSU’s long-term and extended commitment to the literary study of children’s and adolescent literature. The largest in North America and one of the oldest, SDSU’s children’s literature program employs more than a dozen faculty (many with international reputations in the field) and garners more than 1100 student enrollments every year in its undergraduate classes and the M.A. Specialization in Children’s Literature.

As a research center, the NCSCL hosts visiting scholars, sponsors annual lectures and festivals, and provides faculty with the wherewithal to engage in scholarship in a collegial environment. In terms of community outreach, NCSCL faculty conduct summer workshops and professional development seminars for K-12 teachers and university faculty, offering classes in children’s literature; they also discuss books for the young in various media outlets and speak to public and professional groups. Finally, faculty from NCSCL review and evaluate contemporary children’s books on the largest Web site of its kind in the country. For more information visit, http://childlit.sdsu.edu or e-mail childlit@mail.sdsu.edu.

National Language Resource Center/ Language Acquisition Resource Center (LARC)
Mary Ann Lyman-Hager and Paul Wong, Co-Directors

SDSU created the Language Acquisition Resource Center (LARC) in 1989 to improve the capacity of the university to teach foreign languages more effectively. In 1990, LARC at SDSU became one of the first three national Language Resource Centers (LRCs), with funding from the U.S. Department of Education. LARC’s authorized activities are to conduct research in second language acquisition, to develop new means of assessing language proficiency, to train foreign language teachers, to enhance cross-cultural competence, to develop high levels of language competence, particularly in critical less commonly-taught languages, and to explore advanced technologies to enhance language learning experiences. Currently the U.S. Department of Education funds 14 campus-based national centers. SDSU’s center 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).

LARC has enhanced its infrastructure and internet capabilities in order to explore and develop models of distributed and distance learning. These models reflect the changing demographics of SDSU students and require new curricula to reflect student learning preferences. Our digital media archive houses learning objects, authentic materials, lesson plans, and courses and allows for online contributions from national and international collaborators.

LARC hosts a companion initiative, the Advancement of Distinguished Language Proficiency, whose major purpose is to create opportunities for learners of Arabic, Persian, Spanish, Chinese, and other important world languages to reach advanced, superior, and distinguished levels of proficiency through on-site intensive courses, follow-up online learning experiences, and study abroad. Another major emphasis of LARC faculty is to facilitate the learning of less commonly-taught languages of Latin America, in collaboration with the Center for Latin American Studies and other national resource centers funded by the U.S. Department of Education. To evaluate students’ progress through levels, we are developing online diagnostic assessment tools.

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

Center for Qualitative Research
Paul W. Sargent, 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. Over 20 departments and programs from across the seven colleges of SDSU are represented in the center’s core group of participants. Qualitative researchers utilize a wide range of methods to gather data including participant observation, in-depth interviews, content analysis, focus groups, photography, film, and video. They use these data to accomplish a holistic study of social meanings, social relations, and social institutions. The primary objectives of the center are:

- Create and sustain an interdisciplinary community of scholars whose principal research focus is qualitative rather than quantitative.
- 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. In particular, the center sponsors several colloquia each academic year where faculty and students can showcase their work to an appreciative audience. In addition, the center archives and publicly displays samples of ethnographic work.
- Furnish a connection between the intellectual community of San Diego State University and surrounding communities by promoting locally relevant research.

For more information, contact the center at 619-594-2783 or visit http://www-rohan.sdsu.edu/~psargent/PaulHome.html.

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. The institute serves as the SDSU link to the Southwest Consortium for Environmental Research and Policy, a congressionally established consortium of Mexican and U.S. universities for research and policy studies on border environmental issues. For more information, visit the Web site at http://irsc.sdsu.edu.

Center for Interdisciplinary Studies of Youth and Space (ISYS)
Stuart C. Aitken, Director; Tom Herman, Managing Director
Fernando Bosco, Doreen Mattingly, Ramona Pérez, Co-Directors

ISYS is an interdisciplinary collective of academic and community interests. The mission of the center is to support research on children, families, and space. It includes not only international scholarship and global perspectives on young people and families, 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 unique process of identity formation and the relationships through which young people construct their lived spaces. Consequently, ISYS 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 elsewhere including a faculty and graduate student exchange program with the Norway’s National Technological University (NTNU) in Trondheim and its National Center for Childhood Research (NOSSEB). ISYS sponsors the international Routledge journal, Children’s Geographies: Advancing interdisciplinary 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.

ISYS is located in Storm Hall 324. For information call 619-594-6498, or visit http://geography.sdsu.edu/Research/Projects/ISYS/.

Social Science Research Laboratory (SSRL)
Paul Wong, Director

Established in 1974, the Social Science Research Laboratory (SSRL) is a full-service survey research center located on the campus of San Diego State University. SSRL was founded to support social research at San Diego State University and in the San Diego community. SSRL provides a full spectrum of survey research and program evaluation services to university faculty and administrators, as well as to local government, non-profit organizations, and the private sector.

SSRL is capable of conducting telephone, web, mail, and multi-mode surveys. SSRL has 36 CATI stations and currently uses Sawtooth’s WinCati for telephone data collection, Vovici for online data collection, and SPSS for data processing and 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.
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 Web site at http://www.sdsu.edu/business.

**Administration**

Dean: Gail K. Naughton  
Associate Dean for Academic Affairs: James R. Lackritz  
Director of Graduate Programs: David P. Ely  
Assistant Dean for Student Affairs: Sandra L. Williams  
Executive Director of Executive and Specialized Programs and External Affairs: Chris Graham  
Director of Resource Management: Debra Tomic  
Director of Undergraduate Program: Kathleen A. Krentler

**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, 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 maintaining 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, M.B.A./J.D.; jointly with the Thomas Jefferson School of Law), Latin American Studies (M.B.A./M.A.; jointly with the College of Arts and Letters).

**Certificate Programs**

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

**Research Centers and Institutes**

**Center for Accounting in the Public Interest**  
*Martha Doran, Director*

The Center for Accounting in the Public Interest (CAPI) serves the public's need for a restored sense of confidence and trust in how financial issues are handled by business and government. Public perception of institutions is that one cannot trust what is being said or done because of a lack of transparency, completeness, independence, and objectivity. The center is neither an advocate nor an adversary of any specific position, but serves as an honest broker of accountability and provides a platform from which to disseminate analysis and explanations of financial reporting and assumptions.

The center was established in 2006 and received its first grant from the President's Leadership Fund. CAPI is dedicated to serving the public interest in four unique ways:

- CAPI is a not-for-profit center, part of a university community that encourages innovation without the same pressures of pleasing specific clients or interests.
- CAPI includes as its mission the goal of leading forth and transforming students, alumni, entrepreneurs, etc. the community.
- CAPI strives to harness the best aspects of the “ivory tower” by providing learning opportunities and knowledge, facilitating discussions, evaluating “common wisdom”...all of these services without being employed or mandated by some specific entity;
- CAPI provides ideas and educational outreach to support the public interest, not a specific product or point of view, which can foster greater trust and confidence in facilitating dialogue on the challenges of the 21st Century.

CAPI’s mission is to serve the public interest as an honest broker for the whole truth, by facilitating informed financial dialogues, improving financial literacy, ethical literacy and fraud awareness. The center has sponsored and participated in panel discussions, has plans to host an accountability conference, plans to offer courses and workshops, and provides online resources and communication through the Web site at http://capisdsu.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. Founded in 1998, the mission of the CGI is to enhance the skills of corporate directors, senior executives, and investors by creating and delivering initiatives related to a) director and executive development, b) research, and c) curriculum...
innovation. CGI programs focus on identifying and applying “best practices” in all aspects of corporate governance. All CGI initiatives are guided by the principle that corporate leaders hold a primary duty to insure the financial viability of the organizations they manage. CGI staff can be reached at 619-594-5314, CGI@SDSU.edu, or at http://www.sdsu.edu/CorpGov.

Entrepreneurial Management Center (EMC)  Sanford B. Ehrlich, QUALCOMM Executive Director  Bernard Schroeder, Director of EMC Programs  Carmen Bianchi, Director of Family Business  Alex DeNoble, Chair, Department of Management, College of Business Administration

The Entrepreneurial Management Center (EMC) serves students and companies that contribute to the emerging growth sector of the regional business community. The mission of the EMC is to develop educational programs and research focused on best practices that promote entrepreneurship and innovation at the individual and organizational levels. The range of entrepreneurial programs offered includes:

1. mentorship and advisory support to help students acquire the tools and skills necessary for new venture creation and development;
2. intern programs to provide experiential education for undergraduate and graduate students; and
3. organizational consulting and development.

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

- Venture Challenge, a top global MBA business plan competition;
- EMC Business Forum for executives of closely-held/family businesses;
- QUALCOMM Social Entrepreneur Intern program;
- Center for the Commercialization of Advanced Technology;
- WebCompass, a undergraduate internship program aiding nonprofits;
- L. Robert Payne Distinguished Entrepreneur Lecture Series;
- VentureStart Competition, business plan competition for all SDSU students;
- Lavin Entrepreneurs, an undergraduate cohort mentored by senior executives;
- Entrepreneur Day, yearly campuswide celebration of SDSU entrepreneurs;
- Entrepreneurs for Peace, global entrepreneur effort to stimulate peace.

For further information, contact the EMC in the Gateway Center, Room 1502, 619-594-2781, FAX 619-594-8879, and at http://www.sdsu.edu/emc.

Institute for Inclusiveness and Diversity in Organizations (IIDO)  Lynn M. Shore, Director

The purpose of the Institute for Inclusiveness and Diversity in Organizations (IIDO) is to support the development of knowledge and competencies needed to manage a more diverse workforce in a global business environment. Diversity is viewed here in broad terms, incorporating age, ethnicity, disability, sexual orientation, culture, and nationality. Both the changing nature of the work force and the global challenges faced by organizations point to the value of researching social trends. This information deepens the body of knowledge about organizational diversity for management scholars, presents needed information to the business community, provides research opportunities for faculty, and offers educational opportunities for students. Founded in 2006, the IIDO seeks to accomplish these goals by: (1) conducting survey research that investigates the impact of organizational diversity and globalization, with the goal of improving organizational effectiveness; (2) cultivating mutually beneficial relationships with organizations (private sector, public sector, and nonprofit) that support the goals of optimizing human resource management and development in a diverse and interconnected world; and (3) contributing to the education of students, employees, managers, and executives to prepare them for roles in an increasingly diverse and global world. The IIDO also seeks to create research partnerships among faculty at SDSU and at other universities to enhance the knowledge base on social trends, and to increase the international reputation and visibility of the College of Business Administration among scholars and the business community. For further information, contact the director at 619-594-4309 or lshore@mail.sdsu.edu.

Center for International Business Education and Research (CIBER)

Mark J. Ballam, Managing Director  Gangaram Singh, Faculty Director  Siv Lang Lim, Program Coordinator

San Diego State University’s Center for International Business Education and Research (SDSU CIBER) is a national center of excellence funded in part by a grant from the U.S. Department of Education. One of 31 centers nationwide, SDSU CIBER was one of the first five established in 1989 and assists in linking the manpower and information needs of U.S. business with the international education, language training and research capacities of universities across the United States. SDSU CIBER serves as a catalyst to further integrate and advance a number of diverse activities relating to international business education, international business research, language training, student and faculty international exchanges, and executive education outreach programs for our various constituents. The overall mission of the national CIBER program is to help ensure the United States’ long-term international competitiveness by supporting research, education, and outreach activities. Activities of SDSU’s CIBER include funding faculty research; international business and foreign language curricular initiatives; outreach and development programs for the business community; training programs for language and business faculty; supporting conferences, workshops, and seminars related to global business; developing a variety of innovative activities which impact interdisciplinary education in the United States and further the Congressional mandate to enhance U.S. competitiveness abroad. SDSU CIBER is located in the College of Business Administration, and collaborates with colleges across the university, including the College of Arts and Letters.

For more information, visit http://www.sdsu.edu/ciber.

International Institute for the Commercialization of Biomedical Innovation (IICBI)  Gail K. Naughton, Director

The International Institute for the Commercialization of Biomedical Innovation (IICBI) seeks to bring the world’s biomedical innovations to the marketplace. The goal of the IICBI is to work with leading universities to expedite biomedical concepts into development; and then move them forward into the marketplace. The IICBI works with national as well as international universities to develop and bring new medical devices, apparatuses, pharmaceuticals, and treatments to the marketplace. It is partnered with other universities to identify and in-license technologies. Students, faculty, and key life science business leaders work together to develop: (1) a business plan; (2) an IP strategy; (3) a patent for a disclosure, regulatory plan; (4) a competitive strategy for the technology; and (5) identify and pursue commercial partners to develop and market the end product. The mission of the IICBI is to provide the expertise and infrastructures to support the development and commercialization of biomedical innovation from universities across the globe that currently lack the ability to bridge the gap between concept generation and product launch.
Center for the Study of Personal Financial Planning
(CSPFP)

Thomas Warschauer, Director

The center encourages research in individual and family finance to further the ability of financial counselors and planners to provide advice that aids in achieving their financial objectives.

The theoretical base of decision-making criteria for personal financial decisions is weak and sometimes non-existent. In many cases, individuals, families, and their financial planners and advisers make important decisions that have little or no theoretical foundation. The finance discipline – as taught at the university-level – has grown around corporate decision-making, not decisions of the household. The development of an emerging financial planning profession has made this lack of theoretical basis evident. The center is founded on the belief that there is a significant need for scholars to share their ideas and mutually develop their research thoughts, for financial reporters to bring the practical application of this work to the attention of professionals and the public, and for students engaged in the study of financial planning to be aware of the latest findings of researchers engaged in this field.

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 619-594-4040 or tom.warschauer@sdsu.edu.

Corky McMillin Center for Real Estate

Michael Lea, Director

The mission of the Corky McMillin Center for Real Estate is to improve the educational experience for real estate students at SDSU, foster academic research in the areas of real estate, and to act as a resource for real estate professionals, government and industry organizations.

The director of the center is a principal spokesperson for SDSU on real estate issues, organizing events for alumni, supporters, and students. The director teaches courses in real estate finance, conducts real estate research, and represents the center at academic and industry meetings. The center will also host a Global Real Estate Business Competition for undergraduate students.

The center was established in 2009 with a donation from the McMillin family who own one of San Diego’s most successful real estate and development companies.

Real Estate and Land Use Institute (RELUI)

Andrew Q. 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. In support of this mission, RELUI seeks to (1) support, coordinate, and manage systemwide and intercampus research activities; (2) obtain funding sources for education and research activities; (3) promote the general well-being of undergraduate and graduate study within the CSU system; and (4) maintain liaison with government agencies, private industry, and associated organizations with interest in public policy.

At SDSU, RELUI maintains a research and reference center in the College of Business Administration where specialized real estate and land use related materials are available for use by students and faculty. RELUI also participates in internship programs for placement of qualified students with local firms to provide a combined working and learning experience.

For more information, contact RELUI at 619-594-2301, andrew.do@sdsu.edu or jim.short@sdsu.edu, or at http://arweb.sdsu.edu/es/admissions/ab/realestate.htm.
College of Education

Administration
Dean: Ric A. Hovda
Associate Dean: Jose Luis Alvarado
Assistant Dean for Faculty Development and Research: (Vacant)
Assistant Dean for Student Affairs: Patricia Lozada-Santone
Doctoral Programs: Marilee J. Bresciani, Cheryl L. Mason,
Rafaela M. Santa Cruz, Cynthia L. Uline
Manager of Budget and Analysis: Francis Fox
Coordinator of Operations and Support Services: Julie White
Coordinator of Office of Student Services: Lisa McCully

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 eight 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; Educational Leadership; Educational Technology; Policy Studies in Language and Cross-Cultural Education; 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 special 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 and with concentrations in PreK-12 and Community College/Postsecondary Leadership. An Ed.D. program is offered jointly with the University of San Diego in the following fields: Educational Technology and Teaching and Learning (but currently is not admitting new students). Approved teaching credential programs are offered for the single 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 Education
    (currently not admitting new students)
- 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.),

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 twelfth grade.</td>
</tr>
<tr>
<td>2. Multiple Subject Bilingual Cross-Cultural Language and Academic Development (BCLAD) emphasis: Spanish; Internship</td>
<td>Teach in self-contained classrooms and in primary language and English, English Language Development (ELD), and Specially Designed Academic Instruction in English (SDAIE).</td>
</tr>
<tr>
<td>3. Single Subject Concentration in PreK-12 Leadership</td>
<td>Teach single subject area in grades K-12 and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD).</td>
</tr>
<tr>
<td>4. Single Subject Bilingual and Academic Development (BCLAD) emphasis: Spanish; Internship</td>
<td>Teach single subject area in primary language and English in grades K-12 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/Language Arts
- Bilingual Cross-Cultural Specialist
- Special Education:
  - Early Childhood Special Education, Levels I and II; Internship Credential
  - Mild/Moderate Disabilities, Levels I and II; Internship Credential
  - Moderate/Severe Disabilities, Levels I and II; Internship Credential

Service Credentials
- Administrative 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
- Academic Literacy Development for English Language Learners
- Algebra Specialist, Behavior Analysis, Cognitive Disabilities, Community College Teaching, Developing Gifted Potential, Distance Education, Dual Language Bilingual, Early Childhood-Socio-Emotional and Behavior Regulation Intervention Specialist, Early Childhood Special Education, Educational Facility Planning (offered through College of Extended Studies), Family Life Education, Health, Planning, and Assessment, Instructional Design, Instructional Technology, Mathematics Specialist, Reading, Primary Grade Writing Instruction, Psychiatric Rehabilitation Administration, Supported Employment and Transition Specialist, Workforce Education and Lifelong Learning, Teacher Induction: Fifth Year.

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Research Centers and Institutes

**Center for Counseling and School Psychology**

Valerie Cook-Morales, 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 Web site at http://www.psychology.sdsu.edu/advising/counseling%20psychology.htm.

**Center for Educational Leadership, Innovation, and Policy**

Marilee Bresciani and Stephen F. Barnes, Co-Directors

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.

**Center for Equity and Biliteracy Education Research (CEBER)**

Alberto M. Ochoa and Alberto Rodriguez, 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 and Fred R. McFarlane, 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 five centers:

- 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 Collaborative for 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 Center for Pacific Studies (CPS) provides research, training, and technical assistance services in partnership with institutions of higher education, government agencies, and non-profit 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 Mariana Islands, Republic of Palau, and the State of Hawaii.
- The Center for Emerging Leadership (CEL) supports and educates youth and young adults with developmental disabilities through peer-to-peer mentorship as they transition into adulthood as leaders. This is funded by the Department of Health and Human Services, Administration for Children and Families, Administration on Developmental Disabilities. This was initially funded as a center under the corresponding grant competition in 2004.
- 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 Interwork Institute’s facilities are located at 3590 Camino del Rio North in Mission Valley. For more information visit the Web site at http://interwork.sdsu.edu.

**Center for Teaching Critical Thinking and Creativity**

Margie Kitano, Director, Professor Emerita

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.

**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 Department of Educational Technology, and coordinates fieldwork and internship opportunities for advanced graduate students.
San Diego State University Literacy Center
Sharan A. Gibson, 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 and the Reading Recovery® Program. Credentialed teachers enrolled in graduate reading, certificate, and credential programs as well as professional staff conduct the 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 Literacy 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/.

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

The faculty and staff of the Pre-College Institute (PCI), an institute to promote the advancement of pre-college education, implements programs to enhance teaching and learning in multicultural settings and studies their outcomes. The institute, operating from the University’s historic strength in teacher education and its proximity to Mexico, delivers services geared towards promoting educational advancement among pre-college students from low-income families. The institute also supports continuous professional enhancement of teachers from all cultural backgrounds and conducts systematic research and evaluation of the programs that deliver these services. The institute offers services through five federally funded TRIO programs and partnerships with the Colleges of Science, Engineering, and Health and Human Services, as well as the Division of Undergraduate Studies and the Sweetwater Gear Up partnership with Compact for Success. The institute’s international branch offers exchange opportunities for university faculty and students to visit and study in other countries. To learn more, visit the Web site at http://www-rohan.sdsu.edu/dept/sdsutrio/.

Qualcomm Institute for Innovation and Educational Success
Ric A. Hovda, David T. Hayhurst, Geoffrey W. Chase, Co-Directors

The Qualcomm Institute for Innovation and Educational Success is a partnership between Qualcomm/SDSU. This partnership was formed to accomplish the following objectives:

- Significantly increase the technology skills of SDSU graduates, thereby generating a more qualified workforce and a better-informed citizenry.
- Develop an educational system that values, encourages, and rewards creative methods of delivering education, from kindergarten through college graduation.
- Establish the institutional infrastructure at SDSU to support large-scale change and transformation of the education system through innovation, evaluation, and dissemination of effective educational methods.
- Dramatically shift the way education is delivered, from kindergarten through college, with an emphasis on improving technology skills and knowledge.
- Develop cross-curriculum synergies among SDSU academic programs that help teach technology skills to students in all courses of study.
- Develop an effective, sleeves-rolled-up dialogue among Qualcomm, SDSU, and the greater San Diego business and corporate community, with the goal of addressing challenges, identifying opportunities, and generating responsive action.

The institute has the following four components:

- Improving Student Achievement in Mathematics Program to increase student mathematics performance in public schools.
- Project Lead the Way to increase the number and diversity of qualified students entering the College of Engineering.
- People, Information, Communication, and Technology Program to increase the integration of technology with undergraduate students.
- National Center for Urban Schools Transformation will assist urban public schools to dramatically improve the level of student achievement.

Center for Social Equity Technical Assistance
Ruben W. Espinosa and Alberto M. Ochoa, Co-Directors

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 Department of Policy Studies in Language and Cross-Cultural Education at San Diego State University.

Center for the Study of International Education
Laura J. Hall and Minjuan Wang, 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.
College of Engineering

Administration
Dean: David T. Hayhurst
Associate Dean: Randall M. German
Assistant Dean for Student Affairs: Lawrence C. Hinkle (Interim)
Director of Doctoral Programs: Eugene A. Olevsky

General Information
The College of Engineering was established as a distinct unit of the university in 1968, 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 and Engineering Mechanics, 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 a doctoral degree in engineering sciences/applied mechanics 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 to consist of the following integrated components: 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 engineering programs in aerospace engineering, civil engineering, computer engineering, electrical engineering, environmental engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, Inc. Accreditation is being sought for the construction engineering degree.

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 Program**
  - Engineering Sciences/Applied Mechanics

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

- **Master of Engineering (M.Engr)**
- **Certificate Program**
  - Rehabilitation Technology

Research Centers and Institutes

- **Communications Systems and Signal Processing Institute**
  Director: Madhu S. Gupta

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**
  Director: M. Ziad Bayasi

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 Web site at [http://www.engineering.sdsu.edu/~sfrc/](http://www.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.engineering.sdsu.edu/energy.html.

Qualcomm Institute for Innovation and Educational Success
David T. Hayhurst, Geoffrey W. Chase, Ric A. Hovda, Co-Directors

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- Significantly increase the technology skills of SDSU graduates, thereby generating a more qualified workforce and a better-informed citizenry.
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- Establish the institutional infrastructure at SDSU to support large-scale change and transformation of the education system through innovation, evaluation, and dissemination of effective educational methods.
- Dramatically shift the way education is delivered, from kindergarten through college, with an emphasis on improving technology skills and knowledge.
- Develop cross-curriculum synergies among SDSU academic programs that help teach technology skills to students in all courses of study.
- Develop an effective, sleeves-rolled-up dialogue among Qualcomm, SDSU, and the greater San Diego business and corporate community, with the goal of addressing challenges, identifying opportunities, and generating responsive action.

The institute has the following four components:

- Improving Student Achievement in Mathematics Program to increase student mathematics performance in public schools.
- Project Lead the Way to increase the number and diversity of qualified students entering the College of Engineering.
- People, Information, Communication, and Technology Program to increase the integration of technology with undergraduate students.
- National Center for Urban Schools Transformation will assist urban public schools to dramatically improve the level of student achievement.
College of Health and Human Services

Administration
Dean: Marilyn Newhoff
Associate Dean: Stephen J. Williams
Assistant Dean for Student Affairs: Donna M. Daly

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 Department of Gerontology, 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 for gathering information, planning, and evaluating professional actions. This commitment to students produces alumni who will continue to work effectively with our professional schools and departments so that the well-being of individuals, groups, and communities are both preserved and promoted.

Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Master of Public Health, Master of Social Work, Ph.D. in Language and Communicative Disorders, Ph.D. in Public Health, and the professional doctorate in Audiology, the Au.D., comprise the degrees conferred. In addition, students may receive national accreditation, state credential or state licensure, and national or state professional certification depending upon the program and the legal requirements and obligations for practicing the profession. All programs also provide continuing education for professionals already in the field.

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
Language and Communicative Disorders
Public Health (Epidemiology, Global Health, Health Behavioral Science)

Master’s Degrees
Gerontology (M.S.), Nursing (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.).

Certificate Programs
Bilingual Speech-Language Pathology, Gerontology, Preventive Medicine Residency.

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 Other Drug Studies
Thomas F. Reilly, Director
John D. Clapp, Associate Director
The center was established in 1985 by the School of Social Work as the Center on Substance Abuse. In 2003, the emphasis was changed to research and evaluation, while maintaining its primary service program, a drunk driving education and treatment program. The center is actively engaged in conducting alcohol and other drug research and evaluation projects. Over the past decade, the center has received numerous federal, state, and county grants and contracts and has several ongoing projects including the NIH-funded College Party and Bar Environmental Prevention Project and an Evaluation of California’s State Prevention Grants. In addition, the center operates the Central District Driving Under the Influence Program, which provides education and counseling services for court-ordered offenders in the central judicial district of San Diego county. The center is located at 6836 Alvarado Road, Suite 224, 619-229-2340. The Central District Driving Under the Influence Program is located at 9245 Sky Park Court, Suite 101, 858-467-6810.

Visit http://www.centerforsubstance.sdsu.edu for more information.

University Center on Aging
Mario D. Garrett, Director
The Center on Aging is administered by the Department of Gerontology. 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.

To learn more about the center, visit the Web site at http://chhs.sdsu.edu/gero/facultydetail.php?ID=61.

Center for Behavioral and Community Health Studies (BACH)
John P. Elder, Director
Terry L. Conway, Linda C. Gallo, Joni A. Mayer, and Gregory A. Talavera, Associate Directors
The Center for Behavioral and Community Health Studies (BACH) is housed at 9245 SkyPark Court, Suite 221, San Diego, CA 92113. The center, formerly known as The Center for Behavioral Medicine, was established in 1982 for the purpose of promoting research and academic programs relevant to the applications of behavioral science principles to medicine and health care. The center has seven investigators from three different colleges. The interdisciplinary center encourages participation from all of the university colleges and departments. Currently, active investigators come from the Departments of Exercise and Nutritional Sciences, Psychology, and the Graduate School of Public Health. Current center projects involve collaboration between scientists and clinicians from a variety of specialties as well as a variety of other institutions, including Scripps Clinic and Research Foundation, the University of California, San Diego Medical Center, and the Children’s Hospital and Health Center. Funding for the center comes from federal and private foundation grants including several National Institutes of Health agencies. Current sponsors include the National Cancer Institute, National Heart, Lung and Blood Institute, the State of California Department of Health Services, and the University of California Tobacco Related Disease Research Program.

The center provides important research experiences to diverse students who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community interventions.

Visit http://behavioralhealth.sdsu.edu to learn more.
Center for Behavioral Epidemiology and Community Health
Melbourne F. Hovell, Executive Director

Administered through the Graduate School of Public Health, the center was established for the purpose of promoting research to study behavior that prevents or contributes to the cause 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. C-BEACH conducts scientific investigations into the following broad areas: behavioral epidemiology, measurement, and interventions (clinical and community-based). For more information, visit http://www.consensus.sdsu.edu

Consensus Organizing Center
Michael Eichler, Director

The Consensus Organizing Center is administered through the School of Social Work. The center’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 social workers, high school students, foster youth, and community leaders. Specific activities include developing a fellowship program for high school students and provide employment opportunities for undergraduate and graduate students. 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 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-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/.

California Distance Learning Health Network (CDLHN)
Richard M. Gersberg, Principal Investigator
Violet Macias, Executive Director

Founded in 1995, the mission of CDLHN is to produce, promote, and provide training and distance education on a variety of public health topics throughout California, the nation, and around the world. CDLHN's goal is to foster collaboration between health organizations and distance learning educators; and to increase access to the most advanced communication technologies available in the world today. CDLHN produces and promotes courses on a variety of public health topics of benefit to the public health workforce, health care workers as well as interested individuals in the general public. Recent productions include Responding to Bioterrorism: How to Set up Mass Vaccination Clinics, and an important and timely production on Pandemic Avian Flu. Productions and program materials are in both English and Spanish. CDLHN has formed strategic local (San Diego County Department of Health Services), state (California Department of Health Services, Immunization Branch), national (Federal Office of Disease Control) and international partnerships with academic institutions, private organizations, and government agencies. CDLHN is a leader in distance learning efforts and will continue to make learning without limits a reality.

Visit http://www.cdlhn.com to learn more.

Center for Injury Prevention Policy and Practice
Thomas Hatton, Director

The Center for Injury Prevention Policy and Practice was founded in 1986 and is administered through the Graduate School of Public Health. Its mission is to reduce death and disability from injuries by fostering effective injury prevention programs, policies and systems. Current programs: 1) SafetyLit, a Web-based research literature archive and weekly summary of recent injury prevention research, published in collaboration with the World Health Organization. 2) The California Older Adults Traffic Safety Project involves coordinating a multi-agency, public-private task force charged with developing and implementing a wide range of traffic safety policies. Related activities include developing professional education programs for physicians, nurses, and occupational therapists. 3) The California Maternal and Child Health Injury Prevention Program provides in-depth technical assistance to state and local MCH agencies. 4) The California Conference on Childhood Injury Control is an annual four-day meeting where 60 faculty provide training to approximately 400 attendees. 5) The California Kids Plates Program provides more than $300,000 annually in grants to regional, county, and local injury prevention programs. 6) The Children’s Safety Network Economics and Data Analysis Resource Center is a clearinghouse and information agency to determine the incidence, risk factors, and costs of unintentional injuries and violence to children and adolescents. Major funding for the center is through long-term contracts with the US DHHS Health Resources and Services Administration, the California Department of Health and Human Services, and the California Office of Traffic Safety.

Contact the director at david.lawrence@sdsu.edu, 619-594-1994, or visit the Web site at http://www.cipp.org.

Institute for Nursing Research
Diane Hatton, Director

The Institute for Nursing Research (INR) is a non-profit organization that develops and promotes research in the field of nursing. The Institute is dedicated to advancing the science of nursing through research, education, and collaboration. The Institute conducts research projects and provides research funding opportunities to nursing researchers. The Institute also serves as a resource for nurses and researchers, offering support, guidance, and consultation. The Institute for Nursing Research is committed to fostering a culture of research and innovation in nursing. The Institute provides a venue for nurses to collaborate, share their research findings, and contribute to the advancement of nursing as a science.

Academy for Professional Excellence
Thomas F. Reilly, Director
Donald E. Dudley, Co-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 center is to make universal access to high quality and affordable training and technical assistance in curriculum development, in-service training, organizational development, evaluation, and research. The center administers the California Department of Public Health’s Office of Traffic Safety.  The center can be contacted at 619-594-4813 or at http://www.nursing.sdsu.edu/.
The SDSU Institute for Public Security and Health (IPSH) provides an interdisciplinary vehicle by which the colleges and programs collaborate in research and teaching related to prevention, preparedness, response, and recovery for natural and man-made disasters. The institute also includes a focused response group that can provide tangible assistance to regional and global disaster response efforts. In this way, the participants from both the university and the community directly and strategically impact regional and global preparedness and response efforts, and provide positive leadership through this service.

The primary mission of the IPSH addresses public security and health issues, particularly those requiring educational, scientific, technical, and analytical expertise, and translates them into immediate application and service to the community. With the new Homeland Security master’s degree and the Global Emergency Preparedness and Response master’s degree, SDSU has two premier academic programs that specifically link faculty, staff, and students to the educational preparation for addressing disasters, both man-made and natural, for actual response from planning to implementation and evaluation.

By focusing on the planning, action-oriented preparation, and rapid deployment of capabilities for such emergencies and disasters, SDSU is able to provide critical assistance and engage with our campus community and beyond. These activities build regional and global capacities and capabilities to better respond to, and recover from, emergencies and disasters. In addition, SDSU makes connections among countries and assists people and groups in disaster-torn regions, on an ongoing basis. The institute serves as the umbrella entity to house the Center for Homeland Security Technology Assessment (College of Sciences).

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Social Policy Institute
Loring Jones, Coordinator

Administered through the School of Social Work, the mission of the institute is to assist local, state and regional 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 prevention programs that reduce adverse outcomes for vulnerable individuals, families, and communities. To this end, we assist with community needs assessments, as well as program development and evaluation. The Social Policy Institute has prepared a training manual and CD-ROM for home visitors and case managers working with vulnerable families and has recently 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.

Visit the SPI Web site at [http://www.sdsu-spi.org](http://www.sdsu-spi.org) for additional information.

Institute for Public Security and Health (IPSH)
Marilyn Newhoff, Executive Director

The SDSU Institute for Public Security and Health (IPSH) provides an opportunity to build on existing SDSU strengths and facilitate cross-college efforts. The Colleges of Health and Human Services, Sciences, Engineering, Professional Studies and Fine Arts, Business Administration, and Arts and Letters are actively working with each other on many aspects of public security and health.
College of Professional Studies and Fine Arts

Administration
Dean: Joyce M. Gattas
Associate Dean: Kathryn J. LaMaster
Assistant Dean for Student Affairs: Randi E. McKenzie
Director of Development: Mariel Berry
Director of Human Resources: Sonia Wright

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 11 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 cultural, educational, social, economic, and technical fields.

The college houses the schools of Art, Design, and Art History; Communication; Exercise and Nutritional Sciences; Hospitality and Tourism Management; Journalism and Media Studies; Music and Dance; Public Affairs; Theatre, Television, and Film. The college also houses three ROTC programs which lead to commissioned officer status upon graduation. The Center for Hospitality and Tourism Management, the Institute of Public and Urban Affairs, the Production Center for Documentary and Drama, and the Institute for International Security and Conflict Resolution are the research centers that offer the campus and San Diego communities unique instructional opportunities and research.

The College of Professional Studies and Fine Arts is at the forefront of meeting and integrating the needs of community, corporate, government and educational goals. The college is uniquely positioned because of its dedication to and appreciation of traditional and non-traditional forms of scholarship and research reflecting a demographically changing society through its curriculum, research and outreach activities. Interdisciplinary collaboration is the hallmark of the college’s academic programs, research and creative activity that enrich the quality of life, provoke the status quo, enhance understanding of cultural diversity and are at the cutting edge of technology.

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 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), Exercise Physiology (M.S.), Kinesiology (M.A.), Music (M.A., M.M.), Nutritional Sciences (M.S.), Nutritional Science and Exercise Physiology (M.S./M.S.), Public Administration (M.P.A.), Television, Film and New Media Production (M.A.), Theatre Arts (M.A., M.F.A.).

Military Curricula
Aerospace Studies, Military Science, Naval Science

Certificate Programs
Artist Diploma, Museum Studies, Performance, Public Administration (available at Imperial Valley Campus only), Transborder Public Administration and Governance (available through Extension only)

Research Centers and Institutes
Center for the Visual and Performing Arts
The Center for the Visual and Performing Arts initiates and supports nationally and internationally recognized arts programs that inspire, engage, and enrich the university and the region through residencies, artistic alliances, and collaboration. Through grant support, the center (1) integrates the arts on campus by designing collaborative courses across the arts and other disciplines; (2) brings internationally known artists to perform and exhibit, to conduct master classes and workshops, and to offer lectures to students, faculty, and the San Diego arts community; (3) initiates outreach programs throughout the community; and (4) explores important issues and themes through educational opportunities, business forums, and artistic research.

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.

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 multiple venues, including private, public, and not-for-profit agencies.

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.
professional Studies and Fine Arts

Sycuan Institute on Tribal Gaming
Katherine Contreras, Director

The Sycuan Institute on Tribal Gaming focuses on research, policy studies, and education related to the area of tribal gaming management. The institute, centered in the largest tribal gaming community in the world, is geared to studying tribal gaming within the broader industry of hospitality and tourism management. The functions of the institute include: (1) the conduct of timely and innovative research in tribal gaming such as governance, community and regional impact, marketing, tribal gaming operations, trends, etc.; (2) the creation of an annual summit on tribal gaming that addresses policy, regulatory issues, trends, social issues, etc.; (3) the creation of an annual community lecture or symposium on topics geared to informing and engaging the community about tribal issues and community conflicts, and; (5) educating students, professionals, tribal personnel, and interested others for positions in the tribal gaming industry. The institute will facilitate the involvement of faculty with expertise from a variety of disciplines such as mathematics, computer science, policy studies, business, marketing, and public relations in the process of creating and disseminating new knowledge in the area of tribal gaming. The institute is managed and operated by the School of Hospitality and Tourism Management and supported by an endowment from the Sycuan Tribal Council of the Kumeyaay Indians. Visit http://htm.sdsu.edu/sycuan/index.html for details.

Institute of Public and Urban Affairs
Mounah Abdel-Samad, Interim 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 Web site at http://spa.sdsu.edu/tpua.html for additional information.

Institute for Meetings and Events

The Institute for Meetings and Events is focused on education and research dedicated to the application of professional principles in meetings and events. The mission of the institute is to enhance the skills and knowledge of students and professionals in this discipline. The institute creates and delivers initiatives in executive development, research, and curricular innovation. It also offers symposia and similar forums to stimulate dialogue and discussion on key issues and to share knowledge in this new and dynamic discipline. The institute’s functions include the conducting of timely research and innovation; collecting benchmarking data for “best practices”; creating symposia and community events; and educating students and others in the professions in meetings and events.

The institute involves faculty with expertise in a variety of disciplines such as project management, business, public relation, advertising, graphic design, communications, nutrition, and theater to create and disseminate new knowledge in the area of meetings and events.

Theatre, Youth, Media, and Education (TYME) Arts Center
Danielle J. Bedau, Director

The Theatre, Youth, Media, and Education (TYME) Arts Center embraces a variety of unique programs, creative projects, research-based initiatives, and artistic production hosted by the School of Theatre, Television, and Film. The purpose of the center is to (1) engage SDSU students, current and future educators, young people, and leaders, in theatre and media arts education, in an on-going discussion of pertinent, relevant, and cutting-edge issues in fields such as Theatre for Young Audiences (TYA) and Youth Arts aesthetics, community-building and ethics and current methodologies; (2) train the next generation of theatre and media arts educators to both practice and analyze current trends and methods in the field of theatre and media arts education; (3) ignite creativity and a passion for the arts in our audiences through touring productions, the annual Theatre of the World Festival, and other theatrical and media production, and; (4) conduct original research and evaluation related to the filed, and disseminate these findings on the center’s Web site at http://tyme.sdsu.edu/.

Production Center for Documentary and Drama
Jack Ofield, 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 Web site at http://www.rohan.sdsu.edu/dep/sggrad/TFProductionCenter.html.

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://womenvmtfilm.sdsu.edu.

Center for Optimal Health and Performance (COHP)

The Center for Optimal Health and Performance (COHP) is a service unit within the School of Exercise and Nutritional Sciences. The center provides services to community members in the assessment of bone health and occasionally other areas such as physical fitness, diet, and cardiovascular risk. COHP is a co-sponsor with the Aztec Recreation Center to provide supervised exercise programming for adults, focusing especially on the middle and senior years. Target populations include (1)
people interested in improving their physical fitness, physical activity, and nutritional behaviors, and; (2) people seeking advice to prevent inactivity related chronic diseases. Committed to the promotion and support of active living and healthy eating, the center serves as an educational medium for undergraduate and graduate students to gain hands-on experience in exercise and nutritional assessments, counseling, and exercise leadership. COHP operates cooperatively with the SDSU Center for Behavioral Epidemiology and Community Health and in collaboration with the Bone Health Unit.

Learn more about the center at http://www.cohp.sdsu.edu.

Dr. Sanford I. Berman Institute for Effective Communication and General Semantics
Brian H. Spitzberg, Director

The Dr. Sanford I. Berman Institute for Effective Communication and General Semantics within the School of Communication is dedicated to the scholarly study of language and its relations among our symbolic activities, society, and the mind. Specifically, the institute is devoted to the assessment, investigation, and enhancement of communication processes in applied contexts.

Institute for the Study of Intercollegiate Athletics (ISIA)
Roger W. Caves, Director

The Institute for the Study of Intercollegiate Athletics (ISIA) is a research center focused on the use of survey research methods to obtain much needed data about issues concerning intercollegiate athletics and issues associated with intercollegiate athletes. Clients include universities, athletic conferences, foundations, media outlets, and other private sector concerns. A complete range of services is available to include: survey instrument design, sampling, data collection, data reduction and analysis, summary report of findings.

Institute for Leisure and Tourism Management
Vinod Sasidharan, Director

The Institute for Leisure and Tourism Management is a research and community service unit within the School of Hospitality and Tourism Management. It is primarily concerned with conducting leisure, recreation, and tourism related research, promoting professional development, sustainable practices, multicultural experiences, healthy lifestyles, disseminating specialized publications, organizing conferences, seminars, lectures and workshops.

The institute administers a variety of service programs within San Diego County. Camp Able at Coronado, an aquatic-based camp for disabled children and adults, operates ten weeks during the summer at Silver Strand State Beach. The Spring Valley R.E.A.C.H. Program, funded by Social Advocates for Youth, provides recreational and educational activities for children and youth. Additionally, the institute conducts research for local tourism, park and recreation entities as well as the California Department of Parks and Recreation, United States Forest Service, and the National Park Service. The institute publishes monographs focusing on important issues relative to leisure and tourism services delivery. These are available to the public, as well as tourism, park, and recreation practitioners.

To learn more about the institute, visit the Web site at http://rtm.sdsu.edu/research/institute.html.

The Watchdog Institute
Lorie Hearn, Executive Director

The Watchdog Institute 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 nonpartisan and does not engage in political advocacy. The Web site is http://watchdoginstitute.org/.
Administration
Dean: Stanley R. Maloy
Associate Dean for Graduate and Research Affairs: Patrick J. Papin
Associate Dean for Academic and Faculty Affairs: Catherine J. Atkins
Assistant Dean for Student Affairs: Estrallta Martin
Director of Development: Pam Becker
Director of Resource Management: Julie Mitsven

General Information
The College of Sciences, composed of eight departments and various subprograms, offers bachelor’s, master’s, and doctoral degrees, and in scientific fields related to 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
Biological Sciences
Cell Biology and Genetics
Ecology and Evolution
Microbiology and Immunology
Molecular and Structural Biology
Neuroscience
Plant Biology
Virology

Applied Sciences
Atmospheric Sciences
Biogeography
Biological Conservation
Biological Oceanography
Biological Oceanography
Biological Oceanography
Biological Oceanography
Biological Oceanography

Mathematics
Applied Mathematics
Industrial Mathematics
Mathematical Statistics

Physical Sciences
Astronomy
Chemistry
Geology

Life Sciences
Biology
Microbiology
Public Health

Behavioral Sciences
Psychology
Sociology

Register Information
Direct any questions about registration to your college or department or to the Office of the Registrar at (619) 594-6292.

Master’s Degrees
Applied Mathematics (M.S.), Astronomy (M.S.), Biology (M.A., M.S.), Biomedical Quality Systems (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.), Microbiology (M.S.), Physics (M.A., M.S.), Psychology (M.A., M.S.), Radiological Health Physics (M.S.), Regulatory Affairs (M.S.), Statistics (M.S.).

Certificate Programs

Preprofessional Curricula
Allied Health, Preclinical, Premedical, Preoptometry, Prepharmacy, Prephysician Assistant, Prepodiatry, Preveterinary.

Research Centers and Institutes
Edwin C. Allison Center for Earth System History
Stephen 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 palaeontology, 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 the co-directors and their students form the core of an in-house reference and systems collection, including Cretaceous to Recent Ostracodes from globally distributed ocean drilling sites and Ordovician, 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, carbonate microsampling, and hydrodynamics flume systems.

For more information about the center, visit the Web site at http://www.geology.sdsu.edu/facilities/allisnchtr.

Center for Behavioral and Community Health Studies (BACH)
Edward P. Riley, Director
Sarah N. Mattson, Associate Director

The Center for Behavioral and Community Health Studies (BACH) is located at 9245 Skypark Court, Suite 221, San Diego, CA 92123. The center was founded as The Center for Behavioral Medicine in 1982 for the purpose of promoting research and academic programs relevant to the applications of behavioral science principles to medicine and healthcare.

The center has 10 investigators from four different colleges. The interdisciplinary center encourages participation from all of the university colleges and departments. Active investigators are from the Graduate School of Public Health, the School of Exercise and Nutritional Sciences, and the Departments of Psychology and Sociology. Center projects involve collaboration between scientists and clinicians from a variety of specialties, as well as a variety of other institutions, many of which emphasize Latino health. Funding for the center comes from National Institutes of Health, Centers for Disease Control, the State of California, and private foundations.

The center provides important research experiences to diverse students who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community interventions. The Web site is http://www.sdsubach.org.

Center for Behavioral Teratology (CBT)
E. Dale Sevier, 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 has active collaborations with faculty from UCSD, the VA Hospital, Children’s Hospital, and the Scripps Research Institute. Faculty in the center have grants from the National Institutes of Health, Tobacco-Related Disease Research Program, and the State of California.

Center for Bio/Pharmaceutical and Biodevice Development
E. Dale Sevier, Director

The Center for Bio/Pharmaceutical and Biodevice Development focuses on education and training specifically applicable to the research, development, process development, manufacturing, and marketing of FDA regulated pharmaceutical, biologic and medical device products. Faculty and courses from departments within the Colleges of Sciences and Business Administration are integrated with the center’s programs to provide students with a broad understanding of science and management issues that exist in the biomedical industry work environment. The center’s programs particularly address the research and workforce needs of biotechnology companies as their product development projects progress from R&D into clinical research, process development, and manufacturing. The Master of Science in Regulatory Affairs was the first degree program developed and offered by the center. This program addresses overarching legal, ethical, and regulatory requirements that impact the development, manufacturing, and commercialization of biomedical products.
A second, newer Master of Science in Biomedical Quality Systems degree program is being offered by the center. With a focus on the quality aspects of development, manufacturing, and commercialization of biomedical products, it strongly complements the regulatory affairs program and the two programs share some elective courses. Both of these programs also offer a certificate to those students interested in obtaining a foundational understanding, through successfully completing four basic courses.

Internet-based, distance teaching technologies are used to make the center’s education and training programs more widely available to individuals outside of the San Diego area, and this also facilitates the training of industry professionals who often find themselves traveling worldwide on company business. The center is also engaged with regional economic development and workforce development issues and the future acquisition of new training and research facilities. The center interfaces extensively with the California State University Program for Education and Research in Biotechnology (CSUPERB). Visit http://interwork.sdsu.edu/cbkb/aboutus.htm for additional information.

Coastal and Marine Institute

Todd Anderson, Director

The Coastal and Marine Institute provides a focus for marine science education and research at SDSU. The institute assists departments within the university in the development of instructional, research, and public service aspects of coastal and programs and provides supporting services, including advising students, facilitating faculty and student research, operating the SDSU Coastal and Marine Laboratory, and acting as a liaison with other institutions, agencies, and the community. The institute is operated as a special unit of the College of Sciences and is administered by a director and an advisory council consisting of faculty members from participating departments. Additional information about marine studies is available from the Coastal and Marine Institute director or from the office of the dean of the College of Sciences. The Web site is http://www.sci.sdsu.edu/CMI/.

Computational Science Research Center (CSRC)

José E. Castillo, Director

Andrew L. Cooksy, Eugene A. Olevsky, and Paul J. Paolini, 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 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.sci.sdsu.edu/csrc.

Institute for Ecological Monitoring and Management

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. Sweeedler, Director

The San Diego State University Center for Energy Studies (CES) facilitates, promotes and supports research and academic programs concerned with the 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 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

Patrick J. Papin, Interim 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.

In the proximity of energy hazards 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. In addition, biogeochemistry, 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 Web site 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 Rees-Staley Research Foundation, and several San Diego-based biotechnology companies.

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

Center for Homeland Security Technology Assessment
Robert W. Wefty and Eric G. Frost, Co-Directors

The Center for Homeland Security Technology Assessment (CHSTA) provides an opportunity to promote ongoing homeland security efforts at SDSU and to facilitate interactions with other groups working in related areas under the umbrella of the Institute for Public Security and Health. The center is a campus-wide research, education, and outreach effort focused on technologies useful for protection against human-generated and natural disasters in the US and countries around the world. The center assesses various technologies to assist first responders and decision makers by providing an unbiased approach for review, testing, and implementation of technological developments. The center works with the community to solve and coordinate solutions to regional issues, and regularly participates in regional homeland security efforts. The center also considers policy issues specifically linked to technologies to promote public safety within constitutional and legal guidelines.

The center promotes collaborations between faculty, staff, and students at SDSU and other universities and agencies to facilitate the development, assessment, and application of new technologies for use in homeland security. CHSTA is particularly focused on technologies such as telecommunications, visualization, optical and wireless networks, sensor networks, and geospatial mapping to provide inputs into large-scale data analysis and situational awareness functionality, which are required to build larger decision-support and collaboration systems. These applications provide practical solutions to communication, security, surveillance, imaging, database, and data-fusion problems. By integrating technology with language, culture, history, and public policy, the center also helps guide decision makers in the appropriate use of technology and appropriate understanding of vulnerabilities and risks, as well as the complex nature of real-world solutions to security issues. These resources are used to rapidly respond to natural disasters such as earthquakes, tsunamis, hurricanes, fires, and floods on a global basis. They are also useful for building sustainable solutions for avoiding man-made and natural disasters and accelerating community, enhancing the quality of life, and providing international cooperation and collaboration opportunities.

Center for Information Technology and Infrastructure
Eric G. Frost, Director

The Center for Information Technology and Infrastructure (CITI) was established to promote the vision of transforming and empowering SDSU to take advantage of emerging technologies in optical networking, wireless communication, and human-computer interactions through visualization. It nurtures new technologies, builds on existing efforts in environmental monitoring, student safety, transportation studies, law enforcement and first responder interaction, homeland security, collaborative education, Internet technologies, GIS systems, and other high interest areas. Activities extend to many sectors of the community (government, business, academia, non-profit organizations, private citizens) and among different jurisdictions within the region and especially internationally.

CITI is a product of the efforts of the SDSU Visualization Center resulting from community exercise development and participation. Its infrastructure exists in the form of hardware, software, facilities, people, and relationships. Many of these resources were informally gathered through the efforts of the SDSU Viz Center, the SDSU Research Foundation, and relationships with corporations. SDSU has actively collaborated and established partnerships with other academic and medical institutions, law enforcement and military agencies, local, state and federal governmental agencies, and high technology corporations. The center’s continuing involvement in community exercises and organizations also results in a strong, collaborative relationship with regional law enforcement and first responder agencies. These efforts promote additional research, resulting in increased awareness and understanding, a higher state of preparedness, and greater safety for our residents across the region and worldwide.

CITI pursues four major themes, which provide a framework for the center and a pathway for diverse projects: homeland security; natural disaster mitigation and response; global sharing of information and collaborative visualizations; and remote sensing and environmental monitoring.

To learn more about the center, visit the Web site at http://citi.sdsu.edu/.

Center for Research in Mathematics and Science Education (CRMSE)
Ricardo B. Nemirovsky, 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, mathematics and statistics, mechanical engineering, physics, policy studies in language and cross-cultural education, 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 the 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 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 236, San Diego, CA 92120-5013. For more information, contact 619-594-4696. The center may also be reached via campus Mail Code 1862 and at http://crmse.sdsu.edu.
Center for Microbial Sciences  
Anca M. Segall, Director  
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 help in combating human health problems caused by microorganisms and stimulate 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 Web site at http://www.sci.sdsu.edu/~smaloy/CMS/.

Microchemical Core Facility (MCF)  
Joan Chen, Director  
Forest L. Rohwer and Robert W. Zeller, Co-Directors  
The Microchemical Core Facility (MCF) is a component of the California State University Program for Education and Research in Biotechnology (CSUPERB). The MCF is a state-of-the-art facility that provides DNA sequencing and purification services for cell and molecular biologists associated with any of the 23 CSU campuses. In addition, the MCF provides for CSU faculty access to the most recent advances in computer-assisted analyses of molecular structure. Located on the third floor of the Chemical Sciences Laboratory building and managed by the Department of Biology, the MCF provides state-of-the-art molecular analyses and characterization to CSU scientists for the lowest possible cost, as well as fostering the training of university faculty at all levels in the most recent techniques available in the molecular life sciences. Funding for the establishment and maintenance of the SDSU MCF is derived from the National Science Foundation with matching funds provided by the State of California.

For more information call 619-594-1669 or visit http://www.sci.sdsu.edu/dnacore/sdsu_dnacore.html.

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 supports 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 Web site at http://www.bio.sdsu.edu/mbi/masters.html.

Visualization (Viz) Center  
Eric G. Frost and Robert W. Welty, Co-Directors  
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.
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 expectations of lifelong learners. Under the direction of the dean of the college, 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 self-support 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 and approval of the department in which the course is offered. 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 and registration procedures. A maximum of 24 units earned through Open University, Extension, 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 Test of English as a Foreign Language (TOEFL) or its equivalent (80 iBT/213 CBT, 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 and Special Sessions Credit
Matriculated graduate 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 and the department chair. Courses taken through Open University prior to admission to the university may be transferred to meet graduate degree requirements with the approval of the graduate adviser and the graduate dean and are normally limited to nine units depending on the degree objective (see Transfer Credit).

Special Session programs are offered through the College of Extended Studies. A matriculated graduate student who is not in a special sessions program may only take courses through Special Session if the course is not being offered through the regular session, if the student must take the course as part of their program of study, and if the course will not be offered again prior to the student’s planned graduation date. In these cases, if the student is taking regular session courses, he or she will have to pay special session fees and regular session fees given they are enrolled in the regular session.

American Language Institute (ALI)
The American Language Institute offers noncredit intensive (18-25 hours per week) English programs throughout the year to students and professionals interested in improving their English proficiency. Students may request conditional acceptance to the undergraduate freshman program at San Diego State University when they apply online to the ALI. This is offered to those applying from abroad who do not have an adequate proficiency in English (80 iBT), but who otherwise qualify for admission to the university. Students who successfully complete level 106 of the ALI’s English for Academic Purposes program can request a TOEFL waiver, meaning that with positive recommendations they do not need a TOEFL score for admission to graduate or undergraduate programs at SDSU and several partner colleges.

Programs offered by the ALI are as follows:

English for Academic Purposes
EAP is a full semester or summer term course for students planning to enter San Diego State or other colleges or universities at the graduate or undergraduate level. Classes are offered in academic reading, writing, grammar, listening/note taking and speaking; as well as in special areas, including TOEFL, GMAT, and GRE test preparation and business topics. In addition, students may choose from over 30 elective course offerings. Another popular course is Pre-MBA which prepares for graduate degrees in business, including MBA.

Highly advanced students may have the option to register for three to six units of SDSU courses in addition to their English classes. Also, students who meet the English proficiency requirement may register for nine to 12 units through ALI’s Semester at SDSU and Summer Study Abroad programs.
## Intensive English for Communication
IEC is a 3- to 19-week course designed for students and professionals at all levels who want to develop and improve their practical English skills for professional or personal reasons. 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, sports, and conversation clubs. Students may specialize in Business for Global Practices (BGP), a non-credit practical program for professionals.

### Teacher Training and Certificate Programs
Teacher training programs include the amTEFL Certificate, for those with little or no previous English language teaching experience who would like to teach English abroad, and the TESL/TEFL seminar for teachers with a minimum of one year of previous English language teaching experience.

### Customized Group Programs
The ALI can offer customized English language programs for special groups in fields such as business, teacher training, law, health care, sports medicine, youth groups, and others. These are offered at our San Diego State University location or on-site in the home country.

## Services
All students at the institute are offered visa and immigration support and assistance, housing assistance, organized group volunteer activities, field trips to popular tourist attractions, counseling 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 and to apply, please see the ALI Web site at [http://www.americanlanguage.org](http://www.americanlanguage.org) 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 during the day and include courses in literature, science, history, music, current events, religion, sociology, and more. Courses are intellectually stimulating without the pressure of grades, tests, or papers. For more information call 619-594-2983, e-mail osher@mail.sdsu.edu or visit the Web site at: [http://www.neverstoplearning.net/osher](http://www.neverstoplearning.net/osher)

## Travel Abroad Study Programs
The college offers matriculated SDSU students and the general public the opportunity to study language and culture in foreign countries while earning SDSU credit.

For further information call 619-594-6396 or visit the Web site at: [http://www.ces.sdsu.edu/travel](http://www.ces.sdsu.edu/travel)

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

## Extension Courses
In order to meet the needs of the adult community as well as matriculated students, the college provides a variety of extension courses, workshops, and Open University programs. For the convenience of adult students most courses are scheduled in the evenings or on weekends, on campus or at convenient learning extension centers throughout the service area.

Extension courses are offered each semester in a number of areas including education, business administration, public affairs, and the arts and sciences. Many courses and programs are developed in cooperation with off-campus organizations and groups who have identified specific needs. Many extension courses are now offered online. These courses are listed in a special Extended Studies Catalog published three times a year. Some one-unit weekend courses are also offered throughout the year.

There is no limit on the total number of extension units for which a student may enroll; however, the maximum extension credit which may be used toward SDSU bachelor’s degree requirements is 24 units. Courses offered through Extension that are not offered 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 Extension 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](http://www.neverstoplearning.net).

## Professional Development
The Division of Professional Development provides business and industry with certificates and workshops that are responsive to the training and development needs of their employees. Through the division’s activities, 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 casino gaming management, coaching, construction, contract management, human resources, hospitality, Lean Six Sigma, marketing, meeting and event planning, and project management.

In addition, the division 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 addressed cover a wide range of business subjects, such as leadership, finance, 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 typically consist of five to ten courses, and can be completed at the student’s own pace.

### Tailored On-Site Training
SDSU’s Professional Development Division of 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.
Section II. University Degree Programs

From time to time, the university offers specialized advanced degree programs through the College of Extended Studies designed to serve unique groups of students and the special needs of the community. These programs conform to the standards and requirements established by the Graduate Council for all graduate degree curricula. Students enrolling in these programs are fully matriculated and are expected to fulfill all of the academic requirements as described in this Bulletin, including formal admission to the university and to the individual program.

Because of the special nature of these programs, scheduling of courses may not follow the traditional semester schedule. This allows maximum flexibility in the modes, timing, and place of instruction that will best serve the needs of the participating groups. These programs are not supported by the state; correspondingly, the fee structure is different from that listed in this bulletin. Once accepted into the program, students register for classes and pay fees through the College of Extended Studies. Since these fees cover only the cost of instruction, students who desire access to such services of the associated students as health and placement will be required to pay additional fees on campus.

The following programs described in detail in Part Five of this Bulletin are currently offered through special arrangements with the College of Extended Studies. Persons interested in further information are invited to contact the program coordinator.

Master of Business Administration for Executives (M.B.A.)

A two year program designed for mid-career business executives who have substantial work and managerial experience. Classes meet on alternate Fridays and Saturdays. Approximate cost: $43,000.

Master of Business Administration with a Specialization in Sports Business Management (M.B.A.)

A 49 unit full time program in the management of sports organizations and related facilities. A four- to six-month internship in a representative organization is an integral component of the program. Elective coursework will emphasize sport and event marketing, community relations, collective bargaining, and legal issues. Approximate cost: $30,000.

Master of Arts in Educational Technology

This 36 unit program is available online. The program includes “soft technology,” techniques for identifying educational problems and solving them in a way that uses what we know about how people learn. The SDSU Master of Arts program also provides hands-on experience with “hard technology,” preparing its graduates to use exciting new learning technologies. Approximate cost: $20,000.

Master of Science in Biomedical Quality Systems

This 40 unit, two-year program is offered under the auspices of the Center for Bio/Pharmaceutical and Biodevice Development. The curriculum provides those with a background in the biological, chemical, and engineering sciences with a foundational understanding of quality assurance and quality control concepts, practices, and regulatory requirements for the development and manufacturing of medical devices, pharmaceuticals, and biotechnology-related products designed for human use. The curriculum addresses FDA requirements, quality planning, assurance and improvement methods in addition to validation, audit, statistical process control, and experimental design systems. Approximate program cost: $20,000.

Master of Science in Computational Science with Concentration in Professional Applications

This program focuses on professional applications of computational science. The program leads to careers in management of technology in a wide variety of fields. To enter, students must possess a bachelor’s degree with a strong mathematical background. The student must complete a graduate program of 40 units. Approximate cost: $20,000.

Master of Science in Regulatory Affairs

A 40 unit interdisciplinary program offered under the auspices of the Center for Bio/Pharmaceutical and Biodevice Development. The curriculum is designed for regulatory affairs professionals and focuses on the laws and regulations imposed by the Federal government, especially the Food and Drug Administration. Particular concerns are related to drug discovery, development, testing, and manufacture of products for commercial distribution. Approximate cost: $20,000.

Master of Science in Rehabilitation Counseling

A three year, 60 semester hour program, designed for currently employed rehabilitation personnel who are counselors and service providers. Courses are offered throughout the calendar year. There is extensive use of mediated technologies. Approximate cost, excluding books: $13,000.
Library and Information Access

Administration
Dean: Jon E. Cawthorne (Interim)
Associate Dean: Mark Stover (Interim)
Director of Access, Administrative Operations and
Communication: Mark R. Lester
Director of Information Technologies and
Digital Initiatives: Mark Figueroa (Interim)
Director of Development: (Vacant)

Library Faculty
Emeritus: Barclay, Cargille, Chan, Coleman, Crisley, Dickinson,
Dintridge, Goodwin, Goyne, Granrud, Harkányi, Harris, Hoover,
Johns, Kinsey, Lamb, Leerhoff, Martinez, McAmis, McPhail,
Murdock, Palsson, Pease, Posner, Rogers, Sandelin, Shira,
Sonntag, Wilson
Librarians: Baber, Fikes, Harley, Muroi, Perkins, Puerto, Savage, Su,
Turhollow, White
Associate Librarians: Bliss, Carande, Hall, Jackson, Lamont, Payne,
Ray, Salem, Sullivan, Tumlin, Weston
Senior Assistant Librarians: Bahde, Jeffery, Jergovic, Kiczek

General Information
Located in the heart of the SDSU campus, Library and Information Access supports the research and curricular needs of the university community through the development of collections and the provision of services designed to facilitate access to information. Voted the best library in San Diego by San Diego Magazine, the library was described as “friendly, accessible, modern and usually packed with good-looking, hard-working young people.” A new wing for the library was dedicated in 1996, adding a striking library “dome,” which quickly became a landmark on campus. The facility itself has become the intellectual intersection for the SDSU campus community, each year offering talks, lectures, tours, and a dozen exhibits. Spanning more than 500,000 square feet, with more than 3,000 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.

Access
The library is open to the public 24-hours per day, except on holidays, recess dates, and between 1-7 a.m., when access is restricted to SDSU students and affiliates. The library’s Web site at http://infodome.sdsu.edu/ provides access, within the library and remotely, to the library’s catalog, electronic books, and over 79,301 electronic resources. Interlibrary loan services are provided to obtain materials not held in the library. In addition, students and faculty can place unmediated requests for books from San Diego and selected California libraries through Circuit and Link+.

The library’s Information Technologies and Digital Initiatives group provides computer accounts to all students and hosts World Wide Web pages for students, the university and the library. It operates one of the largest computer labs in the country with over 700+ computers with Internet/World Wide Web access. Up-to-date computing resources include a student computing help desk and wireless networking throughout the library.

Holdings
The library’s holdings include 1,726,854 monographs and bound periodicals; 630,300 government documents; 4,643,296 microforms; 142,161 maps; 23,525 sound and video recordings; and 6,121 linear feet of archival papers. The library receives 79,301 periodical and serial titles, including government publications. It is a depository for United States and California government publications, and holds selected United Nations publications.

Special Collections and University Archives
This department houses rare, fine, unique and valuable books, periodicals, manuscripts, and documents which require security and care in handling. The collections consist of approximately 37,000 volumes, 270 archival collections, and 369,000 other items, such as photographs, art prints, postcards, memorabilia, etchings, and oral histories.
Imperial Valley Campus

**Telephone:** 760-768-5500  
**Web Site:** http://www.ivcampus.sdsu.edu

**Administration**  
Dean: Stephen B. W. Roeder  
Associate Dean for Academic Affairs: Roger M. Dunn  
Assistant Dean for Student Affairs: Miguel Rahiotis  
Director of Business and Financial Services: Irma Martinez  
Director of Advancement: John Renison

**Faculty**  
Emeritus: Ayala, Ballesteros, Coates, Elizondo, Fatemi, Garrison, Hill, King, B., Livingston, Medeiros, Merino, Murphy, Polich, Ryan, Varela Ibara  
Professors: Castañeda, Champion, Dunn, Neumann, Reyes, Roeder, Shumaker  
Associate Professors: Herrera, Ponce, Ramirez-Pimienta, Sabath, Stampfl, Verzi  
Assistant Professors: Ajayi, Altamirano, Boinne, Cordero, Rodriguez-Valls, Tuba  
Lecturers: Fuentes, Hoyt, Kofford, Martin

**General Information**  
The Imperial Valley Campus is a branch campus of San Diego State University serving the desert area 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, as part of its Freshman Scholars Program, first and second year undergraduate education to a select cohort of students planning to major in criminal justice, liberal studies, or psychology. The campus offers students the advantages of smaller classes and individual contact with the faculty. The Imperial Valley Campus faculty are multinational in their classroom orientation and background. Interactive television provides students in Calexico 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. Occasional classes are also offered on the weekends.

Imperial County has a population of approximately 160,000 people. SDSU-Imperial Valley Campus is located on two sites, Calexico and Brawley. Calexico is 120 miles east of San Diego, 60 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, as agriculture is the largest industry in the Imperial Valley.

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

**Curricula Offered**

**Master’s Degrees**  
- Master of Arts in Education  
  Concentration in Educational Leadership  
- Master of Public Administration (in cooperation with the San Diego campus)

**Certificate Programs**  
- Business Administration  
- Public Administration  
- Single Subject Mathematics  
- Translation Studies

**Teaching Credentials**  
- Basic  
- Multiple Subject Teaching Credential  
- 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.

**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. The campus has active exchange agreements with universities in Argentina, Brazil, Ecuador, Finland, France, Germany, Iran, Mexico, and Paraguay.

In addition to the Imperial Valley Campus’ own international programs, students may participate in any international program at SDSU, including the California State University International Programs; the SDSU spring semester programs; or the International Student Exchange Program (ISEP) Consortia.
The Center for Individual and Professional Skills Development offers community programs to the Imperial and Mexicali valleys. The center presently offers English as a Second Language (ESL) in the local community and in Mexico, a teacher training program. 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.

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 expanded library, Rodney Auditorium, and John Steppling 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 library, located at the Calexico site, is designed to facilitate research and to provide a pleasant atmosphere for study. The collection is expanding and has more than 110,000 volumes, periodicals, and newspapers which support the curricula offered on the Imperial Valley Campus. Services provided include reference assistance, CD ROM databases, personal computers for word processing, full text database, Internet access, interlibrary loans, and photocopying facilities. Computer assistance is available in the computer laboratory. Both Macintosh and IBM compatible systems and Internet access are also available on campus.

To apply for admission to the Imperial Valley Campus, students complete the CSUMentor application online at http://www.csumentor.edu and have transcripts sent to the Office of Admissions, San Diego State University, 5500 Campanile Drive, San Diego, CA 92182-7455. Call 760-768-5667 for additional information. Students can register on the Internet using WebPortal, but only after fees are paid. Late registration is allowed during the first three weeks of the semester. Students wishing to late register must pay registration fees plus a $25.00 late fee.

The Imperial Valley Campus holds its own commencement exercises each spring, in the Rollie Carrillo Quad, prior to commencement exercises on the San Diego campus.
Imperial Valley Campus – Calexico Campus Map

SDSU IVC Campus – Calexico
720 Heber Avenue
Calexico, CA 92231
760-768-5500

IMPERIAL VALLEY CAMPUS BUILDING LEGEND

1. North Classroom Building (N-101, N-102, N-106, N-108)
2. Administration Building (Administration/Academic Affairs/Business Office)
2A. Art Gallery
3. Auditorium/Classrooms (A-3, LA-1, LA-2, LA-3, LA-4)
4. Classroom Building (C-7, C-8, C-9, C-10)
5. Library
5A. Library Addition
6. Physical Plant
7. Computer Building
8. Student Center
9. Faculty Offices: Building East (Classrooms)
10. Faculty Offices: Building West
20. Student Center
21. Student Affairs
22. CLAT – Classrooms
Imperial Valley Campus – Brawley Campus Map

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