

North Africa 4, Samoa 1, South Asia 5, West Indies 1. 14 scholarships totaling \$4,000 held by foreign students. College offers scholarships specifically designated for foreign students.

Student Life. College's 2 residence halls (capacity 300) house 50% of men and 60% of women. All single students must live on campus or with parents. 7 college apartments provide housing for married students. Intercollegiate athletics: basketball, tennis, soccer, baseball, cross-country. Cars permitted; \$4 fee. College sponsors Vanguard series featuring guest artists and speakers; singing and band concerts. Spiritual Emphasis Week and missions conference held semiannually. Costa Mesa (pop. 72,660) is 45 miles from Los Angeles.

Publications. College catalog, biennially in odd years.

Library. 35,600 volumes; 410 current periodicals; 150 microfilm reels; 115 other units of microtext; 50 tapes or cassettes; 1,200 discs. 17,967 volumes added. \$69,150 spent on books and periodicals 1967-68-1970-71.

Finances, 1970-71. Total revenues \$1,094,453: educational and general \$695,617 (student tuition and fees \$575,088, endowment income \$11,164, gifts \$63,405, other sources \$45,960); student aid \$47,321; auxiliary enterprises \$351,515. Total expenditures \$1,046,558: educational and general \$663,025; student aid \$67,424; auxiliary enterprises \$316,109. Net addition to operating reserves \$47,895. Net addition to plant during fiscal year \$90,521. Book and market value of endowment assets \$170,798.

Buildings and Grounds. 35 acres. Total value buildings, grounds, equipment \$2,370,429.

Administration. *President*, Emil A. Balliet. Address admission inquiries to *Director of Admissions*.

Stanford University

Stanford, California 94305
Tel.: (415) 321-2300

Stanford University, a private coeducational university, offers bachelor's degree programs in Schools of Humanities and Sciences, Earth Sciences, Engineering, and Medicine. First-professional degrees may be earned in Schools of Law and Medicine. Graduate programs are offered in the Schools of Business and Education, the Food Research Institute, and all undergraduate and professional schools.

Accreditation: WA; business, chemistry, engineering (aeronautics and astronautics, chemical, civil, electrical, engineering science, general, industrial, materials science, mechanical, petroleum), law, medical technology, medicine, nursing, physical therapy, teacher education (elementary, secondary, school service personnel).

History. Chartered under present official name, Leland Stanford Junior University, 1885; first instruction at college level 1891; first baccalaureate 1892.

Governing Board. 28 trustees; self-perpetuating unit of 23 members serving 10-year terms; 4 alumni representatives serving 4-year nonrenewable terms; university president ex officio.

Calendar. Quarter system (except School of Law). Regular session late September to early June. Academic year for School of Law: 2 semesters, early September to mid-June. Freshmen admitted September. Degrees conferred June, October, January, April. Summer session: regular quarter, late June to late August; one 8-week term, late June to mid-August.

Characteristics of Freshmen, 1970-71. Men: 90% ranked in top fifth of secondary school class, 7% in second fifth, 3% in third fifth. Women: 94% ranked in top fifth of secondary school class, 5% in second fifth, 1% in third fifth. 74 National Merit Scholars. 23% of applicants accepted. 46% of entering freshmen came from within state.

Admission. For fall acceptance, applications may be submitted as early as September 15 of previous year but not later than January 1 of year of enrollment. Students are notified of acceptance in April. **Requirements:** College-preparatory program. CEEB SAT or ACT program. 3 CEEB Achievement Tests (including English). **For transfer students:** Maximum credit toward baccalaureate from correspondence or extension 15 quarter hours; community or junior college 90 hours; 4-year accredited institution 105 hours.

College credit and advanced placement given for college-level work completed in secondary school on basis of CEEB Advanced Placement Examinations. In special cases, secondary school students may enroll in courses at Stanford.

Degree Requirements. For all bachelor's degrees: 180 quarter hours; C average; 3-quarter residence. **Grading system:** A-B-C-no record; pass-no record option.

ROTC. Army, Navy optional for 2 or 4 years. Termination planned for June 30, 1973. 5 commissions awarded 1970-71.

Special Universitywide Academic Programs. Stanford offers 6-month undergraduate programs at overseas campuses in Austria, England, France, Germany, and Italy. Programs for language students are offered in France, Germany, Mexico, and Spain. Stanford participates in the Intercollegiate Center for Classical Studies in Rome. Overseas programs are offered for graduate students and advanced undergraduates in Taiwan and Japan. The Hopkins Marine Station at Pacific Grove, Calif., provides facilities for instruction and research at the undergraduate and graduate levels. The Stanford Linear Accelerator Center, operated under a contract with AEC, conducts research and provides graduate training in experimental and elementary particle physics and computer science. The Hoover Institution on War, Revolution, and Peace is an international center for documentation and research on 20th-century economic, political, and social change.

Graduate Work. See specific school. For fields in which doctorates have been awarded, see Tables 1-8 of Appendix IV.

Degrees Conferred. Year ending June 30, 1971: bachelor's 1,505 (A.B. 1,263, B.S. 242); first-professional 247 (J.D. 198, M.D. 69); master's 1,619 (A.M. 484, M.S. 735, Engineer 29, J.S.M. 4, M.Archit. 12, M.B.A. 329, M.Ed. Adm. 6, M.F.A. 20); doctorates 582 (Ph.D. 567, D.M.A. 3, Ed.D. 12). Of those receiving baccalaureates, 85% expected to continue in graduate or professional schools.

Fees, 1971-72. Full-time tuition \$2,610 a year (\$2,805 for business and M.D. students). Part-time tuition for graduate students enrolled in up to 8 units \$485. Summer session tuition \$185-\$725 depending on number of units taken. Application for undergraduates \$15, graduate students \$25. Laboratory \$10-\$30. Room \$510 a year; board \$785. Average rent for institutional married-student housing \$130 a month.

Student Financial Aid, 1970-71. 2,557 undergraduates received aid. Scholarships and grants 1,954, from \$100 to \$4,500, total \$2,988,131; applications close February 15 for freshmen, April 15 for other students. Loans 1,104, from \$100 to \$1,500, total \$604,411. College-assigned jobs 465, from \$550 to \$600, total \$208,500.

About 4,500 graduate students received aid. Fellowships 3,500, from \$250 to \$5,000, total about \$7,050,000; teaching assistantships 1,000, from \$1,000 to \$4,600, total about \$1,468,000; research assistantships 1,485, average value \$2,438, total about \$3,620,000. Loans 1,148, from \$100 to \$2,500, total about \$1,286,040.

Teaching Staff, 1970-71. Total: 1,262. Men full time 1,059, part time 88; women full time 73, part time 42. Degrees held: 863 doctorates, 90 master's, 14 bachelor's, 287 professional.

Enrollment. Fall 1970: 12,566. Undergraduate 6,325 full time: lower division men 2,158, women 1,169; upper division men 1,961, women 1,037. 54% of undergraduates came from within state. Transfer students: 970. Lower division men 250, women 200; upper division men 300, women 220. First-professional 855 full time: men 755, women 100. Graduate 5,386: men full time 3,100, part time 1,423; women full time 582, part time 281. Summer 1970: 5,017.

Foreign Students, 1970-71. 1,117. Undergraduate 90: men 71, women 19. First-professional 21: men 16, women 5. Graduate 1,006: men 918, women 88. Africa (sub-Saharan) 41, Australia 25, Canada 103, East Asia 198, Europe 333, Latin America 210, Middle East and North Africa 66, South Asia 83, Southeast Asia 56, stateless 2. 532 scholarships averaging \$3,500 held by foreign students. University offers scholarships specifically designated for foreign students.

Student Life. University's 50 residence halls (capacity 3,383) house 27% of students, including 47% of undergraduate men and 69% of undergraduate women. 25 coed dorms house 1,563 men and 1,083 women. Freshmen must live on campus. 20% of men join and live in 24 fraternities. 948 university apartments provide housing for married students. Intercollegiate athletics: football, basketball, track and field, baseball.

swimming (Pacific-8 Conference). Cars permitted; \$10 fee. University sponsors series of professional performances and lectures. Religious organizations for students of many faiths. University is adjacent to Palo Alto (pop. 55,966) and 45 miles from San Francisco.

Publications. Admissions pamphlet, June; general catalog, January; summer session bulletin, February; School of Medicine bulletin, January; School of Nursing bulletin, June; Graduate School of Business bulletin, August; School of Law bulletin, October. *The Alumni Almanac*, 9 times a year. University press published 35 new titles during 1970.

Library. 3,447,372 volumes; 48,948 current periodicals; 42,534 microfilm reels; 567,091 other units of microtext; 590 films; 4,262 tapes or cassettes; 70,327 discs. *Special collections:* 19th- and 20th-century English and American literature (22,515 volumes); musical comedy and operetta scores (546); Early American imprints (3,497); American history (1,780 volumes); Sir Isaac Newton and history of scientific thought (2,911 volumes); book arts and history of books (6,289 volumes); music (1,270 volumes); rare and valuable books (15,965); Hopkins Transportation Library (12,000 volumes); Hoover Institution collection on war, revolution, and peace (1,004,000 items); Food Research Institute (56,284 volumes).

Finances, 1970-71. Total revenues \$190,468,833: educational and general \$10,799,381 (student tuition and fees \$27,100,961, government appropriations \$6,280,017, endowment income \$10,742,812, gifts \$3,808,044, sponsored research \$39,751,473, other sponsored programs \$2,746,120, recovery of indirect costs \$11,850,723, sales and services of educational departments \$3,416,385, organized activities relating to educational departments \$1,176,913, other sources \$3,925,933); student aid \$8,015,079; major service programs \$54,336,371; auxiliary enterprises \$17,118,002. Total expenditures \$190,468,833: educational and general \$109,029,392; student aid \$10,961,857; major public service programs \$53,359,582; auxiliary enterprises \$17,118,002. Net reduction of operating reserves \$1,149,000. Net addition to plant during fiscal year \$16,527,634. Book value of endowment assets \$279,699,942, market value \$318,366,000.

Buildings and Grounds. 8,133 acres. Total value buildings, grounds, equipment \$219,531,058. *New construction:* Education research and development building, 4-story apartment building, 88 townhouses, all completed 1972. *Distinctive buildings:* Main quadrangle with hand-carved arcades (1888-1891) features sandstone walls and red tile roofs, a style continued in all subsequent building. Stanford Museum (1892) was first U.S. structure built of reinforced concrete. Stanford Linear Accelerator Center houses 2-mile linear accelerator.

Administration. *President,* Richard W. Lyman. Undergraduates address admission inquiries to *Dean of Admissions*; graduate students address inquiries to *Dean of Graduate Studies*.

School of Humanities and Sciences

Degree Requirements. See general requirements. Offers programs leading to A.B. and B.S.

Departments and Teaching Staff, 1970-71. Anthropology professors 11, associate professors 3, assistant professors 2, instructors 0, additional part-time 0; applied physics 7,2,3,0,0; art 7,5,3,0,1; Asian languages 4,1,3,3,1; biology 14,5,4,4,0; chemistry 15,2,4,1,0; classics 5,1,5,0,0; communication 5,3,5,1,0; computer science 10,3,2,0,0; economics 14,3,9,0,0; English 20,8,13,0,4; French and Italian 7,1,3,8,1; German 6,1,5,2,1; history 12,9,9,9,2; humanities 7,1,4,0,0; linguistics 1,1,2,1,4; mathematics 20,1,9,2,2; music 7,2,1,2,1; philosophy 9,2,6,0,1; physics 11,4,8,0,0; political science 17,2,7,0,0; psychology 10,6,8,0,1; Slavic languages and literatures 1,2,1,1,2; sociology 7,0,8,0,0; Spanish 5,0,5,1,0; speech and drama 4,4,5,6,0; statistics 10,2,5,0,0. *Total:* 521. Men full time 460, part time 11; women full time 40, part time 10. *Degrees held:* 452 doctorates, 49 master's, 9 bachelor's, 3 professional.

Special Academic Programs. Interdepartmental major programs in African, Afro-American studies; comparative literature; human biology; modern thought and literature; values, technology, and society.

Graduate Work. Master's degree programs in all departments; interdepartmental A.M. programs in East Asian, Latin American studies. Doctoral programs are offered leading to Ph.D. in all departments and in comparative literature, humanities-religious studies, modern thought and literature; D.M.A. in music.

Enrollment. *Fall 1970:* 4,561 full time. Undergraduate 3,076: men 1,938, women 1,138. Graduate 1,485: men 1,098, women 387. *Summer 1970:* 1,377.

School of Earth Sciences

Degree Requirements. See general requirements. Offers programs leading to B.S.

Departments and Teaching Staff, 1970-71. Geology professors 11, associate professors 4, assistant professors 1, instructors 0, additional part-time 2; geophysics 3,0,2,0,0; mineral engineering 4,3,1,0,1; petroleum engineering 3,0,0,1,0. *Total:* 36 men; full time 33, part time 3. *Degrees held:* 34 doctorates, 1 master's, 1 bachelor's.

Special Academic Programs. Programs in environmental earth sciences, mechanical processes and earth material, mathematical geology.

Graduate Work. M.S. and Ph.D. degree programs are offered in all departments.

Enrollment. *Fall 1970:* 149 full time. Undergraduate 31: men 29, women 2. Graduate 118: men 106, women 12.

School of Engineering

Admission. In addition to general requirements, advanced work in mathematics (including trigonometry), physics, chemistry recommended.

Degree Requirements. See general requirements. Offers programs leading to B.S.

Departments and Teaching Staff, 1970-71. Aeronautics and astronautics professors 12, associate professors 4, assistant professors 0, additional part-time 4; applied mechanics 6,0,1,0; chemical engineering 4,0,4,1; civil engineering 13,5,2,2; electrical engineering 33,7,5,4; engineering-economic systems 3,4,0,1; industrial engineering 2,3,4,3; materials science 7,3,1,1; mechanical engineering 10,6,3,2; operations research 7,1,1,0. *Total:* 169 men; full time 151, part time 18. *Degrees held:* 162 doctorates, 7 master's.

Special Academic Programs. Student-designed majors. Programs in technology and society, bioengineering. Undergraduates may work simultaneously toward A.B. and B.S. degrees. 5-year joint-degree program leads to B.S. and M.S. degrees. Stanford cooperates with certain liberal arts colleges in providing dual-degree programs in engineering. Opportunity to spend junior year at the Instituto Tecnológico y de Estudios Superiores de Monterrey in Mexico or the Ecole Nationale Supérieure de Mécanique in France.

Graduate Work. M.S. and Ph.D. degree programs are offered in all departments; interdepartmental programs in engineering in biology and medicine, hydrology.

Enrollment. *Fall 1970:* 2,267. Undergraduate 544 full time: men 525, women 19. Graduate 1,723: men full time 1,304, part time 390; women full time 46, part time 2.

School of Medicine

Admission. Students admitted to nursing program in junior year. Medical microbiology program requires senior standing and completion of essential premedical sciences curriculum. For M.D. program, preference given to applicants with bachelor's degrees; 3 years college work including premedical curriculum. MCAT required.

Degree Requirements. See general requirements. Offers programs leading to B.S. and M.D. *For M.D.:* 192 quarter hours including 64 hours in clinical clerkships; scores 75 on each part of Board of Medical Examiners test; 12-quarter residence.

Departments and Teaching Staff, 1970-71. Anatomy professors 2, associate professors 2, assistant professors 2, instructors 3, additional part-time 1; anesthesia 4,1,9,0,9; biochemistry 6,1,0,0,1; community and preventive medicine 5,2,3,1,14; dermatology 2,2,1,0,5; Fleischmann Laboratories 1,0,0,0,0; genetics 4,1,0,0,1; gynecology and obstetrics 1,4,0,1,0; medical microbiology 4,2,2,1,1; medicine 10,11,17,6,6; neurology 1,4,3,1,0; nursing 1,1,3,7,0; pathology 5,4,8,0,7; pediatrics 4,4,7,0,5; pharmacology 7,0,2,0,2; physical therapy 0,1,2,1,4; physiology 4,1,0,0,5; psychiatry 8,5,19,0,11; radiology 3,7,15,4,5; surgery 13,7,26,1,8. *Total:* 375.

Men full time 262, part time 61; women full time 29, part time 23. *Degrees held:* 82 doctorates, 32 master's, 1 bachelor's, 260 professional.

Special Academic Programs. A.B. in basic medical sciences for students in the M.D. program who matriculate without bachelor's degree. Nursing program leads to B.S. and certification as public health nurse. Interdepartmental Ph.D. degree program in neurological sciences. Allied health training programs offered by the School of Medicine and/or the Stanford University Hospital include programs for diagnostic and therapeutic radiologic technologists, medical technologists, inhalation therapists (conjointly with nearby Foothill College), physicians' assistants, nursing clerks, nursing assistants, operating room nurses. Joint-degree programs lead to M.D. and Ph.D. degrees.

Graduate Work. A.M. degree programs in medical sciences, medical microbiology, physical therapy. Doctoral programs are offered leading to Ph.D. in anatomy, biochemistry, genetics, hearing and speech sciences, medical microbiology, pharmacology, physiology.

Enrollment. *Fall 1970:* 502. Undergraduate 63 women; lower division 20, upper division 43. First-professional 331: men 304, women 27. Graduate 108: men 64, women 44. *Summer 1970:* 178.

School of Law

Admission. Applications should be submitted by March 1, preferably by January 1. School usually requires bachelor's degree. Students must complete LSAT.

Degree Requirements. For J.D.: 87 semester hours; 6-semester residence.

Teaching Staff, 1970-71. Professors 21, associate professors 5, assistant professors 3, additional part-time 3. *Total:* 32 men; full time 29, part time 3. *Degrees held:* 4 doctorates, 28 professional.

Special Academic Programs. Joint-degree programs with Graduate School of Business and with economics, history, political science departments. Intern program provides students with opportunity for 1 semester work with juvenile probation departments, public defender, judge, or law firm.

Graduate Work. J.M. degree program; J.S.M. Doctoral programs are offered leading to J.S.D.

Enrollment. *Fall 1970:* 513 full time. First-professional 497: men 422, women 75. Graduate 16 men. *Summer 1970:* 48.

Graduate School of Business

Degree Information. Offers programs leading to M.B.A. and Ph.D.

Teaching Staff, 1970-71. Professors 24, associate professors 13, assistant professors 20, instructors 1, additional part-time 4. *Total:* 62 men; full time 58, part time 4. *Degrees held:* 56 doctorates, 3 master's, 2 bachelor's, 1 professional.

Special Academic Programs. 4-year joint-degree program with School of Law leads to J.D. and M.B.A. degrees.

Graduate Work. M.B.A. degree programs. Doctoral programs are offered leading to Ph.D. in accounting, business economics, computers and information systems, finance, management logistics, management of the total enterprise, marketing, operations and systems analysis, operations management, organizational behavior.

Enrollment. *Fall 1970:* Graduate 737: men full time 701, part time 23; women full time 12, part time 1.

School of Education

Degree Information. Offers programs leading to A.M., M.A.T., M.E.A., Ed.D., and Ph.D.

Teaching Staff, 1970-71. Professors 25, associate professors 6, assistant professors 16, instructors 2, additional part-time 2. *Total:* 51. Men full time 45, part time 1; women full time 4, part time 1. *Degrees held:* 49 doctorates, 1 bachelor's, 1 professional.

Special Academic Programs. M.A.T. degree program for teachers or students with previous teacher preparation is offered jointly with departments of art, biology, chemistry, classics, English, French and Italian, German, history, humanities, linguistics, mathematics, physical sciences, religious studies, Slavic languages, Spanish and Portuguese, speech and

drama, 4-quarter Secondary Teacher Education Internship Program leads to both master's degree and state credential. M.Ed.Admin. degree offered jointly with Graduate School of Business.

Graduate Work. A.M. degree programs in administration, counseling curriculum, early childhood education, social foundations of education, M.A.T.; M.Ed.Admin. Doctoral programs are offered leading to Ed.D. and Ph.D. in comparative and international development education, curriculum and instruction, history of education, mathematical methods in education research, organizational and administrative studies, philosophy of education, political and economic studies, psychological studies, sociological and anthropological studies, teacher education.

Enrollment. *Fall 1970:* Graduate 478: men full time 192, part time 94; women full time 146, part time 46. *Summer 1970:* 371.

Food Research Institute

Degree Information. Offers programs leading to A.M. and Ph.D.

Teaching Staff, 1970-71. Professors 4, associate professors 3, assistant professors 4. *Total:* 11 men full time. *Degrees held:* 11 doctorates.

Graduate Work. M.A. degree program in agricultural economics. Doctoral programs are offered leading to Ph.D. in agricultural economics, commodity markets and price analysis, international trade problems and policies, economic development, economics of tropical agriculture, demography.

Enrollment. *Fall 1970:* Graduate 30 full time: men 28, women 5. *Summer 1970:* 5.

Stanislaus State College

See California State College, Stanislaus

United States International University

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United States International University is a private coeducational institution offering baccalaureate programs on the Elliott Campus, the California Western Campuses, and the School of Performing Arts Campus. The School of Law on the California Western Campus offers professional curricula leading to the J.D. degree. Graduate degree programs are offered through the Graduate Schools of Human Behavior and Business Administration on the Elliott Campus, and at the School of Performing Arts. The institution offers A.A. degree programs in Middle College for qualified students who have completed at least the tenth grade of secondary school. U.S. International University operates 8 campuses which include the 3 in San Diego and individual Middle College campuses at Steamboat Springs, Colo.; Maunaloa, Hawaii; Ashdown Park, Fort Row, England; Universidad Internacional de Mexico, Mexico City, Mexico; and Nairobi, Kenya, which began offering college-level programs in 1971.

Accreditation: WA; law.

History. Took over charter of Balboa University, changed name to California Western University, and offered first instruction 1952; first baccalaureate 1953; present name adopted 1966.

Governing Board. Self-perpetuating board of 18 trustees; 3-year terms.

Calendar. Quarter system (except School of Law). Regular session last September to mid-June. Freshmen admitted September, January, April, June. For School of Law: academic year of 2 semesters, early September to late May. Degrees conferred June. Summer quarter, late June to late August; law school, two 5-week terms, early June to late August.

Characteristics of Freshmen, 1970-71. All students: 20% ranked in top