

# CALIFORNIA STATE POLYTECHNIC COLLEGE·ANNUAL REPORT·1965-66









# ANNUAL REPORT 1965-66

## California State Polytechnic College

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# The Overview

The 1965-66 college year will be recorded as a landmark year in the history of California State Polytechnic College. It was the 65th anniversary of the founding of the college which was observed through various activities from January, 1966, through June, including the revival of Founders Day.

The year was marked also by the retirement June 30 of Julian A. McPhee, who had been president of the college for 33 years. During the year a vice president was appointed for the first time at each campus to serve as its principal administrative officer.

## POLYTECHNIC EMPHASIS

The college continued to maintain during the year its policy of a polytechnic emphasis consistent with the Enabling Act and the Education Code. The emphasis areas of the college have been defined as being the applied fields of agriculture, engineering, business and home economics and their closely related supporting fields: physical sciences, natural sciences and mathematics. The trends which have developed in recent years with respect to polytechnic emphasis at each of the campuses are set forth in Table III, page 14.

## STUDENT PERSISTENCE

To study the "drop out" problem and search for possible solutions a Student Persistence Study Committee was organized at each campus in January of 1966. Each prepared a report. The committee at San Luis Obispo proposed activities divided into four groups:

1. Under the direction of the Institutional Research Office, internal statistical information will be augmented. Data will be collected also on the relationship of academic performance and student persistence as well as data for interinstitutional comparison of student attrition.
2. The Counseling Center will continue to prepare a sample of first time freshmen and first time transfers and will study the characteristics of successful, unsuccessful and withdrawing students and make follow-up studies of non-returning students. Counseling Center also will study probationary students to assess the relative value of differing approaches through counseling.
3. The student persistence study committee itself will sponsor a series of projects directed toward improving instruction, advisement and curriculum.
4. The Faculty-Staff Council proposes to do research looking toward improvement in instruction, in evaluation of student performance and in methods of evaluating instructors.

The Kellogg Campus committee made more than twenty recommendations dealing, among other things, with investigation of the need for selective admission by majors, a pre-admission advisement program, strengthening of the advisory system, improvement of instruction, better grading practices, more frequent offering of required courses, better new student orientation, establishment of special study skills classes and tutorial programs and gathering of further data on student persistence.

## INTERNATIONAL EDUCATION

The year saw growth of the Cal Poly educational services for emerging and undeveloped nations and progress in the College's cooperation in the program for A.I.D. participants.

### *Overseas Projects through A.I.D.*

The College has four staff members in Zambia and eight in Tanzania in connection with technical assistance contracts through the United States Agency for International Development. A contract has been signed with A.I.D. in connection with development of processing and marketing of fruit and vegetables in Guatemala. The College has been asked to provide assistance also to Sudan and Thailand. Cal Poly's overseas contact operations through A.I.D. are the largest among the California State Colleges.

The College has had technical assistance contracts through U.S./A.I.D. with independent countries of Africa since 1963. These contracts have called for partial staffing by Cal Poly personnel at host countries' technical institutes. The assistance in Zambia is given to the Evelyn Hone College of Further Education in Lusaka and in Tanzania to the Dar es Salaam Technical College. Areas included in the staffing have been primarily in engineering, agriculture and business. The intention of these contracts is to provide experience for native technicians who will, in turn, train others in the future.

The College is giving this technical assistance because it has been asked along with some 200 other universities and colleges of the United States to participate. The College's policy is to assist only so far as its



capabilities in staffing permit and only in those areas in which it is most proficient. At no time will assistance programs be accepted that will create hardship for departments which are having difficulty in faculty recruitment.

### **Program for A.I.D. Participants**

The College in partnership with the U.S. Government's Agency for International Development and the Foreign Training Division, International Agricultural Development Service, Department of Agriculture, continued to provide technical education opportunities for A.I.D. Participants from many nations on the San Luis Obispo and Pomona campuses.

The majority of A.I.D. Participants assigned to the college during 1965-1966 were engaged in study programs leading to a Bachelor of Science degree in Agriculture. Thirty-nine were enrolled during the summer sessions of 1965, 78 during the fall and winter quarter period and 77 during the spring quarter.

During the spring quarter three Participants were enrolled in the graduate program in Agricultural Education and 58 were enrolled in B.S. degree curriculums in agriculture. In addition, one Participant was enrolled in the Two-Year Technical Curriculum in Dairy Husbandry and eight in special non-degree objective training programs in a specialized area of agriculture. Seven Participants were enrolled in engineering with B.S. degree goals.

Fifteen A.I.D. Participants successfully completed requirements for the B.S. degree during 1965-66. Four of the graduates were selected by A.I.D. and their own govern-



**Cal Poly Instructor Teaching a Class in Management at Dar es Salaam Technical College, Tanzania.**

ment to continue their education for an advanced degree at a Land Grant University. Eleven returned home to assume immediately positions of responsibility in their own government.

A continuing effort was made not only to provide technical instruction for A.I.D. Participants, but to supply also the needed understanding, motivation stimulus, leadership and guidance without which technical study can have but limited value and effect. The college continued to be deeply interested in providing Participants a view of the broad spectrum of American society thereby increasing their knowledge and understanding of U.S. traditions, culture, development, aims, and hopes for the future.

### **EDUCATIONAL CENTER**

The year 1965-66 saw California State Polytechnic College's Educational Center on the Voorhis Campus pass the 300 mark in the number of conferences with which it has worked since the start of formal programming July 1, 1961. Of these confer-

ences, more than 90 per cent have been in-residence. Approximately 17 per cent were national or international in scope, 25 per cent Western Regional, 25 per cent statewide, and the balance largely Southern Californian in make-up.

Approximately 50 per cent involved business and industry, 25 per cent various levels of education, 25 per cent government or community organizations. Average conference length has been four days and three nights.

One of the Educational Center's major objectives has been assisting firms or organizations which wished to develop their first conference. At the end of 1965-66, the Center had assisted 36 such groups toward the establishing of a "first conference" and a continuing program. Another objective is bringing to the West Coast for the first time outstanding continuing education programs which have hitherto been held only in other regions. The Center has now brought five, the most recent being a Personnel Testing Institute from Purdue which for more than a decade had been held only in the Midwest.



# San Luis Obispo Campus

Enrollment broke through the 7,000 student ceiling for the first time in 1965-66 at the San Luis Obispo Campus. Of the 7,225 registered 90.3 per cent were from California, 4.9 per cent from other states and territories and 4.8 per cent from foreign countries. Los Angeles County with 17.7 per cent of those enrolled continued to be the largest contributor to the student body. San Luis Obispo County was next with 14.5 per cent.

The 330 foreign students enrolled came from 64 countries. The Engineering Division with 157 had the largest number of foreign students enrolled. The Agriculture Division had 135 such students. The department with the largest number of foreign students was Mechanical Engineering with 35 closely followed by Electronic Engineering with 30.

Consistent with a general pattern of growth at the College the faculty increased to 418 instructors, of whom 402 were full-time. Expenditures increased from \$7,437,935 to \$8,363,596.

## INSTRUCTION

### *Agriculture Division*

Looking toward strengthening instruction in the Agriculture Division, two special groups were invited in during the year to study the educational program.

To assist the College in evaluating its instructional program in agriculture the Stanford Research Institute was engaged to prepare a study and report on "The Implica-

tions of Agricultural Manpower Needs for Curriculum Planning and Evaluation at California State Polytechnic College." A final report and recommendations will be made available sometime in late 1966.

A panel from the Commission on Education in Agriculture and Natural Resources of the National Academy of Sciences was welcomed to the campus. This panel made up of leaders in agriculture served two purposes. The first was to inform the Commission on the status and trends of undergraduate education in agriculture and natural resources, and second to assist the College in self evaluation of its undergraduate teaching programs in agriculture.

To achieve excellence in instruction adequate land and facilities are paramount. To this end a request has been submitted to obtain a portion of the Army Camp land declared surplus by the U. S. Government. "Agriculture Division Report and Recommendations on Land Development" was prepared to justify and substantiate the need for additional land to strengthen the program in livestock and crops instruction.

Elective student enterprise activities under the auspices of the California State Polytechnic College Foundation were carried on by 744 agriculture students who engaged in a total of 370 projects. These activities resulted in student earnings of \$48,391.69. The largest number of projects were in beef with 179 students involved in 58 projects which earned \$10,582.69. Dairy projects, however, were the most profitable, for in these 55 students carrying on 41 projects earned \$17,651.15.

### *Engineering Division*

Emphasis was placed in 1965-66 on the evaluation of the engineering curriculum. The Division reviewed with considerable interest and critical analysis the report of the ECPD Committee. The Goals Report on Engineering Education was analyzed also.

The Division gave special consideration to the increasing numbers of students being supplied by the junior colleges. To minimize the time required for a transfer student to obtain an engineering degree from Cal Poly, structural revisions have been made primarily in the mathematics area.

Enrollment of 700 students taxed the facilities and staff of the Architecture and Architectural Engineering Department in 1965-66. With staff and facilities being increased it is anticipated that the enrollment will reach 800 for 1966-67. Accreditation of the Architecture program was granted by the National Architectural Accreditation Board. In its report, the accreditation team was highly complimentary of the unusual facilities and significant contributions to the state-wide architectural programs.

In Electronic Engineering updating of laboratory facilities now provides modern equipment for instruction in the areas of analog and digital computers, microwave and laser technology, and control systems.

The Mechanical Engineering Department has pioneered an introductory nuclear laboratory to stimulate student interest in the use and application of laboratory techniques for studying nuclear mechanisms.



### ***Applied Arts Division***

The Business Administration Department's placement of students was materially improved. Library acquisitions germane to the study of business were significant. The Education Department experienced significant growth in art, psychology, counseling and guidance, school supervision and master's degree courses. The English and Speech Department made preparations to add a course in Beginning French in September, 1966. The music sequence, designed to serve students preparing for elementary teaching, attracted many students. The Music Department because of large enrollment has a continuing problem with overcrowding of practice rooms, listening library and lockers. Physical Education facilities continued to be used to the maximum. Locker space was at a premium in both the women's and the men's facilities.

Technical Arts Department enrollment grew steadily throughout the year, achieving a total of 238 majors by spring quarter. Advanced students in the Technical Journalism Department produced a 32-page supplement for the student newspaper honoring the 65th anniversary of the College and the retirement of President McPhee.

### ***Applied Science Division***

The Biological Sciences Department added courses in food microbiology, marine microbiology and general physiology.

A Mobile Radioisotope Laboratory from the Oak Ridge Institute of Nuclear Studies visited the campus under sponsorship of the Physical Science Department March 28-April 8. The program consisted of a 90-minute lecture and 120-minute laboratory session daily providing specialized training in

the techniques and applications of radioisotopes. The participation at Cal Poly was the largest the program has had.

The Mathematics Department experienced a marked growth in enrollment in statistics courses with the increased number of calculators available in the department. Programming for the electric calculator is an excellent intermediate experience for programming for the computer. Exceptional growth in enrollment in courses related to the computer was realized this year also.

The ROTC Unit continued to increase in size reaching an enrollment of 607 cadets. President Julian A. McPhee and Dean Clyde P. Fisher were awarded Certificates of Appreciation by the Department of the Army in recognition of their contributions to the development of the unit.

At the beginning of the spring quarter, 258 students majoring in the Social Sciences Department were preparing for careers in elementary and secondary teaching.

### ***Library***

The College Library acquired an additional 17,300 volumes during 1965-66, bringing the total bound volume collection to 169,190. In addition there are 17,950 collection items including microfilm, curriculum materials, elementary and secondary textbooks and teaching aids. Approximately 1,660 periodical titles were regularly received, with 157 new titles being added during the year.

### ***Instructional Materials Program***

With dollar matching federal funds from the Vocational Education act of 1963 available for its use, the Instructional Materials

Program produced some 20 new filmstrips, handbooks, manuals and folders during 1965-66. Some already are being used in classrooms and the remainder will be in use before the end of the year. Another 40 projects are in various stages of development. (Approximately 40 units of instructional materials were developed during the 1957-65 period before federal funds became available to expand the program.)

A kit of materials on agricultural chemical safety has gained national attention in the agricultural press and on television since it was published this year. The kit consisting of two handbooks and a set of demonstration equipment was developed from materials used in a special course for students of the college who are using agricultural chemicals.

### ***Computer Center***

The number of problems processed at the Computer Center on the 1620 System was double that of the previous year, with more than 12,600 problems being processed during the period from September to June. More than 96 per cent of the time used on the 1620 System was for processing student problems. All of the instructional divisions of the college made use of the center, with most of the problems coming from engineering and mathematics classes.

New programs have been developed for administrative use of the Computer Center. These include programs for institutional studies, student records, student assistant payroll, generation of class cards, and systems analysis and programming of a new procedure for updating student GPA and grades. These programs have been added to the program library which now consists of 63 programs.



## **Conferences and Workshops**

The College carried on its traditional program of statewide service to off-campus groups with 25 conferences, workshops and seminars held on the campus for such organizations. Of these, 15 can be expected to be annual campus events.

## **COUNSELING AND TESTING**

Counselors interviewed 2,036 specific students this year in 3,049 interviews. Students interviewed were self-referred to the Counseling Center by a ratio of approximately 4 to 1. The staff spent 2,779 hours in individual counseling and 209 hours in group counseling. In 165 groups counseled, 2,812 students (non-duplicate) were involved. The total of individuals experiencing counseling was 4,848. Each counselor had time set aside to work closely with faculty. More than 150 counselor-instructor meetings were held involving 360 different instructors.

## **FINANCIAL AID FOR STUDENTS**

Scholarships administered by the College for the 1965-66 year totaled \$65,250 and provided assistance for 160 students. These were supplemented by 184 miscellaneous scholarships not administered by the College totaling \$33,401.

Short term loans to students numbered 1,258 and provided a total loan amount of \$37,740. Sixty long term loans were made totaling \$11,075. National Defense Student Loans for this year assisted 408 students for a total of \$289,146. Loans approved for the United Student Aid Funds, Inc. totaled 55 for an amount of \$21,940. Donations to the College for the United Student Aid Funds, Inc. totaled \$19,500 and provided a loaning capacity in the amount of \$243,750.

For the first time, the College participated in the U.S. College Work-Study Program and has provided 83 students with a total payroll for this year of \$20,990.

## **HEALTH CENTER**

Physicians at the Health Center saw 21,826 patients. Laboratory exams totaled 38,004 and X-ray exams 4,561. Immunizations totaled 5,833, pharmacy transactions 9,688 and physical therapy treatments 5,093. Bed days for infirmary patients at the Health Center amounted to 1,925.

## **PLACEMENT**

Employer campus recruitment activity for 1965-66 shows 502 representatives of 293 employers made 360 visits to California State Polytechnic College. These representatives made 4,806 student contacts. An additional 3,749 interview appointments were available to Cal Poly students on campus; 59 additional employers would have visited Cal Poly had student interest been sufficient in the type of employment opportunities available. Interview dates for 1966-67 had been reserved by 94 companies by June 1, 1966.

Placement office staff time continued to be heavily committed to personal attention for those who wish to pursue employment off campus with employers not recruiting at Cal Poly. The number of employers who contact the placement office by letter and telephone seeking seniors and alumni with agriculture, business, education, and other degrees for openings in their operations continues to increase sharply. There are more employers seeking Cal Poly graduates who do not interview on campus than do.

In addition to the many on-campus employment opportunities, over 1,351 requests from the local community for students to take part-time employment or to work at an odd job were handled since July 1, 1965. Many of these requests involved more than one student.

With respect to part-time employment for students on campus, funds allotted for student assistant employment for 1965-66 totaled \$707,392.

## **BUILDING PROGRAM**

Only four major construction projects were completed although this year provided planning time for a multi-million dollar future program beginning in late summer of 1966.

The projects completed were the second phase of the remodeling of the former administration building, now the Business Administration and Education building; a remodeling of portions of Engineering East to provide additional electronic engineering laboratories; the completion of a beef animal corral identified as the Beef Breeding Unit; and a major site development project to improve utility services and roads on the campus.

Also of particular significance this year was the approval of the revised Master Plan for Physical Development for this campus by the Trustees of the California State Colleges at their meeting of June 1-2, held at San Luis Obispo.

During the fall of 1966, groundbreaking east of the Agriculture-English buildings will indicate the start of Science North, with instructional facilities primarily for the Biological Sciences. Estimated to contract for \$1.6 million, this new building will be

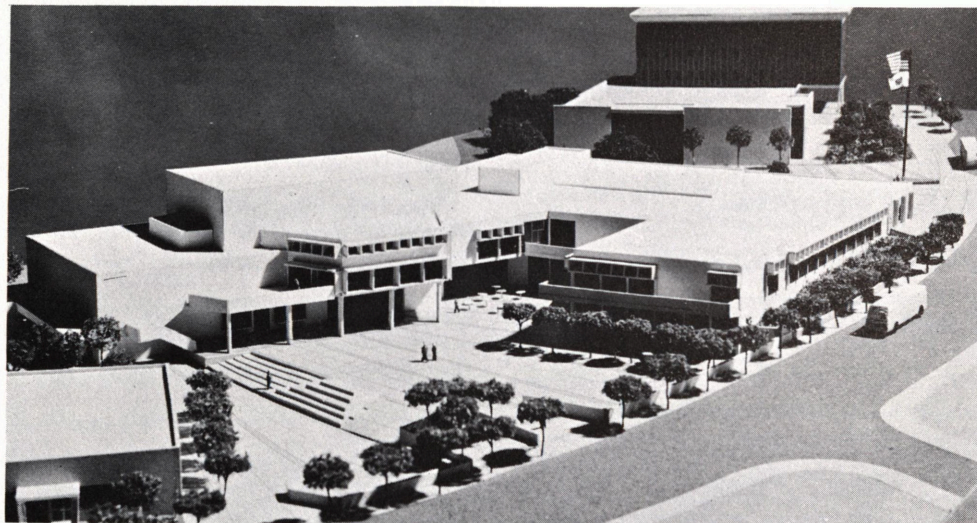


available for classes in the fall 1968. Significantly, this project is the first in the State College System to qualify for a Federal grant under the Higher Education Facilities Act of 1963.

Later this fall a new classroom building will be started in the temporary parking lot located between Engineering East and Engineering West. It will contain drafting laboratories, general classrooms and the new home of the centralized computer and data processing functions for the campus.

The first phase of an extensive Residence Hall complex will be started early spring, 1967. Designed to house 600 students, the unit will be located along the east side of the Grand Avenue entrance to the Campus. Ultimate plans for this complex provide for a total of 2,400 residence spaces and a new dining facility for 3,600 individuals. The total complex will occupy all available land on the east side of Grand Avenue requiring the relocation of the Ornamental Horticulture Unit presently occupying part of this site. The new O.H. unit will be constructed on the north-eastern edge of the academic center in the vicinity of the Thoroughbred Horse Unit.

The College Union will be under way by Summer 1967 in the temporary parking area between the new Administration Building and the College Dining Hall. Also



**Model of College Union at San Luis Obispo Showing its Location between the Dining Hall (left) and Administration Building (right).**

to start during the summer of 1967 are relocation of the athletic track and baseball field, the outdoor swimming pool complex, and the signalizing of California Boulevard at Foothill.

Basic planning has been completed on a new Library Addition planned to extend north from the present building replacing the temporary "Navy" residence halls. The first part of an extensive engineering complex — Engineering South — is planned as

phase one of the final engineering building for a campus capacity of 12,000 FTE. The total project is planned for the areas now occupied by the old Power Plant, Crandall Gymnasium, Natatorium and football field.

To replace Crandall Gymnasium, now classed as a temporary unit, a new Women's Physical Education building is planned west of the Men's Physical Education unit. All three of these new facilities are planned for completion by fall 1970.



# Kellogg Campus

In 1965-66 the Kellogg Campus celebrated its tenth year of operation with an enrollment of 4,907 students which was almost ten times the 504 students registered when instructional activities were moved from the Voorhis Campus to the new campus in 1956. The increase of 1965 enrollment over that of 1964 was 10.8 per cent.

Los Angeles County with 58 per cent of the enrollment continued to send more students to the Kellogg Campus than any other county. Second in this respect was San Bernardino County with 13.9 per cent followed by Orange with 6 per cent and Riverside County with 5.7 per cent. The percentage of women in the student body continued to increase reaching 23.5 per cent this year.

Foreign students, numbering 282, constituted 5.7 per cent of the fall enrollment and by the spring quarter their number had increased to 287. In the fall of 1964 a total of 79 foreign students represented only 3.6 per cent of the student body. This year's foreign enrollment came from 42 foreign countries. Iran led runnerup India with 66 and 37 respectively. The Engineering Division has the greatest number of foreign students with 195, Arts and Sciences 56 and Agriculture 36.

Growing along with enrollment have been the faculty, expenditures, facilities and offerings. Faculty members total 307 of whom 257 are full-time. The increase is more than 16 per cent compared with the number for the preceding year. Expenditures, too, increased to \$6,357,682 as compared with \$5,353,488 in 1964-65.

## INSTRUCTION

### *Agriculture Division*

Foods and Nutrition was introduced as a new major program for the Agriculture Division in the fall and enjoyed an excellent start. During the year an even 100 students completed requirements for the bachelor degree. The placement picture for Agriculture graduates has continued excellent, with industry demands far exceeding the number of graduates available.

New program proposals were developed for initiation in the Fall of 1967. Already submitted to the Chancellor's Office is a proposal for a baccalaureate program in Urban Planning. Approval was received from the Chancellor's Office to offer 4-year programs in Park Administration and International Agriculture beginning in 1967.

Of major concern in the agriculture production development is the installation of the effluent water program. Plans for the on-campus system development have been completed; engineering is currently underway for the off-campus system. The College has negotiated an agreement with the City of Pomona for the purchase of water over a 20-year period. This contract has received approval at all levels. The College, therefore, is assured of a guaranteed future source of excellent agriculture water.

One hundred agricultural projects were carried on by 261 students during the year. Gross income of the projects was \$56,007.18 of which the student share or profit was \$6,472.05.

The Agriculture Division carried on 29 workshops, conferences, and other activities with off-campus groups which involved

more than 5,400 persons. Of these events, 22 are held on an annual basis at the Kellogg Campus and the remainder were held for the first time this year. The Management and Training Seminar of the Arabian Horse Association of Southern California drew the largest attendance with 1,600 persons. The next best attendance was 1,300 students for the Agricultural Education Field Day in early April.

These events dealt with a wide range of subjects including, among others, landscape design, horse management and training, pest control, citrus pest control, the Delano farm labor situation, landscape design for California garden clubs, Fulbright scholars, and Angus cattle.

### *Engineering Division*

This was a year of continued growth and development and the establishment of a new major and new laboratories. In the Fall of 1965, the enrollment in engineering reached a peak of 1625 majors, exceeded only by San Luis Obispo in the California State Colleges.

A new major in Chemical Engineering was initiated with 45 students enrolled. The department has developed sufficiently so that it can offer freshman, sophomore, and junior work in the Fall of 1966.

In all departments there was continued equipping and developing of laboratories. In particular, the Welding Engineering Department put into operation a non-destructive testing laboratory and a 300 kilovolt and a 150 kilovolt x-ray unit in the new laboratories to serve the welding laboratories.



Kellogg Campus engineering students continued to be very successful in obtaining graduate scholarships and fellowships and in winning competitions with students from other engineering schools. A student in the Mechanical Engineering Department won the Mac Short Award (the third win for the Kellogg Campus), and the Student Technical Paper Contest of the Society of Automotive Engineers which involved several colleges and universities.

An aerospace student won best presentation in the American Institute of Astronautical Engineers Student Conference Technical Paper Competition; another won third place in the same competition. About 15 colleges competed.

Each year more and more Kellogg Campus engineering students are winning awards, fellowships and scholarships for graduate school work. An electronics senior has won a National Science Foundation Fellowship for use in earning a master's degree in electrical engineering at M.I.T., and then, under a renewable provision of the fellowship, for work toward a Ph.D. at the same institution. An electronics engineering student has been awarded a \$10,000 scholarship for graduate work in bio-physics and nuclear medicine at University of California, Los Angeles.

The Los Angeles Council of the Institute of Electrical and Electronic Engineers selected a Kellogg Campus student as winner of the Student Paper Contest and gave another an award for scholastic achievement. The student chapter on the Kellogg Campus is the largest in the United States with about 135 members.

A Student Chapter of the American Foundrymen's Society has been established in the Industrial Engineering Department. These students have received four scholarships of \$500 each from this society.

A half dozen of the engineering faculty have won annual grants from the National Science Foundation for a full year's study. Considerably more than a score have won Summer National Science Foundation grants.

For the fifth successive year, the Foothill Section of the Institute of Electrical and Electronics Engineers sponsored its annual series of Spring Lectures on campus jointly with the Kellogg Campus Electronics Engineering Department. The American Society for Quality Control Conference with 500 participants was co-sponsored by the Industrial Engineering Department in January, 1966. The American Foundryman's Society Meeting with 200 participants occurred in April, 1966, on campus. The American Institute of Industrial Engineers met on campus in May, 1966, with 75 participants. The JETS Project Exposition was held on campus in May with considerable success.

During the past several years the enrollment in the summer quarter has multiplied several-fold. In the Summer of 1966 there were 410 engineers enrolled during the summer. This has been most helpful in assisting transfer students to get in phase and to graduate sooner, and to assist other students who wish to expedite their progress toward a degree.

## **Arts and Sciences Division**

The Biological Sciences Department received a grant of \$30,000 from the National Science Foundation for purchase of scientific equipment. Activity in student internships increased over previous years in business management, accountancy, social sciences, and journalism. Faculty in the social sciences and humanities cooperated with the Educational Center in sponsoring professional conferences at the Center.

The Music Department sponsored the Second Cal Poly Invitational Music Festival during the year. The Mathematics Department sponsored the ninth Annual American Society for Quality Control Conference in cooperation with the Engineering Division. The Forensics squad had the most active year to date. The number of students participating and the number of events in which the team competed more than doubled those of previous years.

In Physical Education the college hosted the State Water Polo Tournament, the first Kellogg Campus Athletic Trainer's Clinic, the San Antonio League High School Swimming Championship, the Pomona-San Gabriel Valley Red-Cross Life Savings WSI Institute, and a night workshop on Physical Education for elementary school children. The Kellogg Campus was admitted to membership in the California Collegiate Athletic Association at the December, 1965, meeting of the Conference.

## **Computer Center**

There were 8,001 programs processed in 1965-66 compared with 7252 in 1964-65 and 5,014 in 1963-64. Machine time amounted to 672 hours in 1965-66, com-



pared to 600 in 1964-65. This is an average of 18.6 hours per week. Two additional key punch machines were added in 1965 to handle the load increase. Heavier use of the facility is anticipated in 1966-67.

In 1967, additional budget requests include a 1311 Disk Storage Drive Unit and the 1443 On-Line Printer. For 1966-67 two new positions are in the budget: Educational Data Processing Supervisor, and a Director of Data Processing.

### Library

The Library holdings during the 1965-66 year were increased as follows:

Type	1963-64	1964-65	1965-66
Books			
cataloged	38,563	58,000	72,000
Bound			
periodicals	12,049	14,637	30,000
Documents			
collection	17,200	20,000	22,450

### Audio Visual Center

A motion picture projection service provided to faculty during spring quarter was well received. The service will be continued during the 1966-67 academic year. Several programs originating in the campus television studios were distributed to classrooms. The contemporary topical panel shows and the programs based on English literature were well received by the Language Arts Department.

### PLACEMENT

On-campus interviews by employers set a new record high this year at the Kellogg Campus and, based upon partial returns, average salaries offered to 1966 graduates were higher than in the previous year.

Some 195 companies sent representatives one or more times during the year, conducted 306 interviewing schedules, and met 74 per cent of the senior class. By June, 1966, nearly all firms had recruiting dates for 1966-67 already scheduled. While space industry demands for technical graduates continued strong, greater emphasis in consumer product companies was noted than in previous years. Demand for accountants, civil, mechanical, and industrial engineers and graduates in agriculture is greater than the supply.

Part-time jobs in nearby communities were plentiful during 1965-66 school year for students interested in working to supplement school budgets. Over 1,700 off-campus job orders were listed with the Placement Center in the period September through May.

### COUNSELING AND TESTING

The Counseling Center handled 2168 counseling cases during the year. The Foreign Student population is not included in this figure as in the past.

Special effort was put forth this year in two areas. One was to refine the intake procedure. It is the desire of the Counseling Center to give immediate help to those who need it. The other effort this year was to identify the needs of the sub-populations and to design programs to meet these needs. Both of these efforts are now on-going and will continue to be areas of concentration next year.

### HEALTH CENTER

An increase in the utilization of the Health Center over the corresponding period in the previous year merely reflects

the gradual increase in enrollment. Procedures performed were: Students seen by physicians, 8,962, x-ray films read 1,884, minor surgery 256, Nurses station 3,453, Physiotherapy 10,350, Laboratory 1,710, x-ray examination 1,694.

### FINANCIAL AID

At the Kellogg Campus, student financial aid opportunities have grown significantly during the past year. This is largely due to the aid programs created by the Higher Education Act of 1965.

As part of this law, the U.S. College Work-Study Program has enabled 85 students to earn \$36,440 to meet school expenses. This program is in addition to the regular on-going student assistant program which this past year saw 2,073 students earn \$422,659 in employment under work programs of the College, the El Patio Book Store and the Cal Poly Foundation.

In another federally sponsored program, nearly 300 National Defense Loans were authorized by the College's Scholarship and Loan Committee for \$180,000. The average loan was approximately \$600.

Seven new scholarship programs came into being as the result of gifts by individuals, industry groups, students and alumni. The largest of these was the California Park and Recreation Society Scholarship for \$375. In addition, one new student loan fund was established; the Waid-Palmer Memorial Fund was made possible by Sun-kist Growers and Managers groups. A total of 29 scholarships for \$7,450 were approved by the Scholarship and Loan Committee in 1965-66. Off-campus organizations



and other donors have provided \$16,157 to help 80 students with aid not administered by this college.

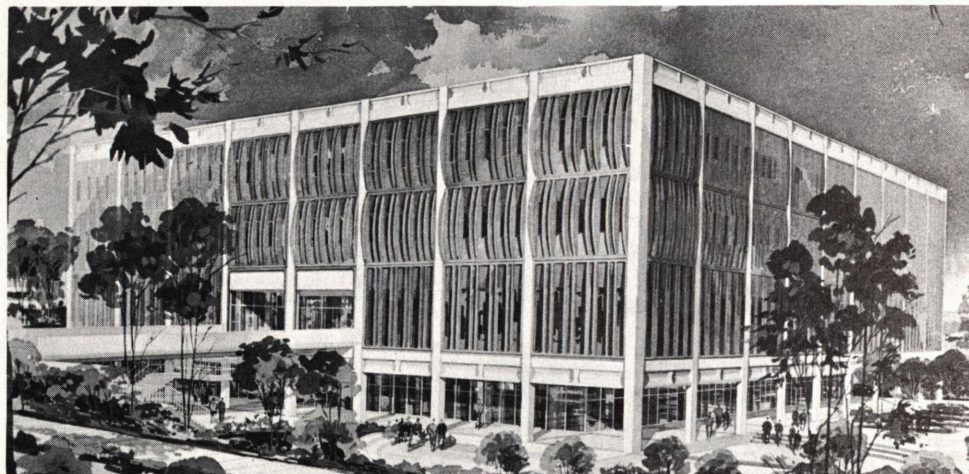
By the year's end an estimated \$67,500 in college short-term loans involving 1,350 transactions were approved. These loans range in amounts from \$3 to \$75. Under the United Student Aid Funds, Inc. Program \$46,596 in school-bank loans were approved in 113 transactions.

## BUILDING PROGRAM

Work was started on the construction of the new 100,000 square foot Physical Education Facility during the year. This \$3 million structure will be occupied by the College in the spring of 1967. This facility will provide much needed space for physical education instructional activities, additional office space for the faculty, and a varsity basketball court.

During the year working drawings were completed for the new \$4 million Library building. This new four-story facility will be 144,000 square feet in size and provide enough space for 266,000 volumes. Construction on this project should start early in 1967.

Projects completed during 1965-66 year were air-conditioning of the Business Class-



Architect's Concept of the New Library at the Kellogg Campus.

room Building and the Science Classroom Building. Working drawings were also completed for the air conditioning of the Agriculture-Classroom Building. A new Residence Hall Complex, consisting of facilities for housing 372 women students and a dining hall for 1220 resident students, was approved for working drawings late in the year. Construction is scheduled to start on this \$3 million project in 1967.

Plans for the immediate future call for a \$1.5 million addition to the Agriculture

Building to provide required space for Landscape Architecture, Foods and Nutrition, and Soil Science. Planning was also initiated for converting the existing Library building to an Instructional Services-Classroom building on completion of the new Library.

A \$10 million five-year capital outlay program for 1966-71 was developed during the year. This program will continue the development of the campus according to the Approved Master Plan.



**Table I-A. TOTAL ENROLLMENT BY MAJOR,  
San Luis Obispo Campus, Fall 1958 — Fall 1965**

Major	1958	1959	1960	1961	1962	1963	1964	1965
<b>Agriculture</b>								
Ag. Bus. Mgmt.	—	23	77	133	182	225	252	279
Ag. Ed.	17	19	23	22	22	17	47	32
Ag. Engr.	122	109	102	100	91	87	97	93
Mech. Ag.	132	116	113	95	102	107	98	106
Animal Husb.	300	357	364	410	437	446	434	438
Crops	96	95	110	100	109	130	128	129
Fruit Prod.	22	32	30	40	40	39	47	38
Dairy Husb.	58	65	64	60	63	67	64	65
Dairy Mfg.	26	32	32	37	37	28	31	31
Farm Mgmt.	100	118	126	114	133	135	160	158
Food Proc.	—	3	4	19	21	29	27	46
Orn. Hort.	43	46	66	71	81	98	109	110
Poultry Ind.	35	42	43	39	32	40	38	49
Soil Science	66	68	76	73	68	65	73	70
<b>TOTALS</b>	<b>1017</b>	<b>1125</b>	<b>1230</b>	<b>1313</b>	<b>1418</b>	<b>1513</b>	<b>1605</b>	<b>1644</b>
<b>Engineering</b>								
Aeronautical	250	242	185	175	180	202	216	214
Air Cond. & Ref.	82	88	79	73	85	104	109	105
Architectural	307	315	356	356	461	554	693	705
Electrical	159	144	124	130	148	143	159	140
Electronic	573	550	503	491	496	516	574	470
Industrial	103	97	102	104	112	101	111	101
Mechanical	506	444	415	350	375	395	398	397
Weld. & Met.	—	16	29	40	41	45	36	42
<b>TOTALS</b>	<b>1980</b>	<b>1896</b>	<b>1793</b>	<b>1719</b>	<b>1898</b>	<b>2060</b>	<b>2296</b>	<b>2174</b>
<b>Applied Arts</b>								
Business	—	55	167	204	293	331	387	484
Educ., Elem. 1/	178	217	350	430	513	323	197	56
Educ., Sec.	98	64	47	98	154	252	225	313
English	31	37	20	4	1	76	183	268
Home Ec.	87	97	174	237	311	336	377	462
Physical Ed.	135	160	142	151	141	146	168	194
Printing	106	95	107	107	110	133	128	123
Tech. Arts	31	77	102	105	131	131	140	212
Tech. Journ.	52	33	55	73	69	72	57	63
<b>TOTALS</b>	<b>718</b>	<b>835</b>	<b>1164</b>	<b>1409</b>	<b>1723</b>	<b>1800</b>	<b>1862</b>	<b>2175</b>
<b>Applied Sciences</b>								
Biological Sci.	85	93	143	165	201	242	268	278
Mathematics	131	140	152	175	181	200	238	290
Physical Sci.	47	53	57	56	71	62	75	102
Biochemistry	15	22	22	27	17	19	23	19
Social Sci.	105	131	138	230	259	393	514	543
<b>TOTALS</b>	<b>383</b>	<b>439</b>	<b>512</b>	<b>653</b>	<b>729</b>	<b>916</b>	<b>1118</b>	<b>1232</b>
Unknown	84	182	14	7	33	21	23	—
<b>Campus Totals</b>	<b>4182</b>	<b>4477</b>	<b>4713</b>	<b>5101</b>	<b>5801</b>	<b>6310</b>	<b>6904</b>	<b>7225</b>

1/ Starting in 1963 direct majors in Elementary Education were phased out and students with this objective majored instead in other fields, such as English and Social Sciences.

**Table I-B. TOTAL ENROLLMENT BY MAJOR,  
Kellogg Campus, Fall 1958 — Fall 1965**

Major	1958	1959	1960	1961	1962	1963	1964	1965
<b>Agriculture</b>								
Ag. Bus. Mgmt.	87	86	107	97	102	117	120	113
Agronomy & Soils	88	68	70	65	60	59	49	51
Animal Science	127	104	128	133	130	160	169	186
Foods & Nutrition	—	—	—	—	—	—	—	19
Fruit Ind.	35	46	40	37	35	39	38	42
Land Arch.	120	141	140	182	191	206	239	244
Orn. Hort.	56	64	63	71	76	78	74	100
Service & Insp.	36	32	38	39	42	42	37	34
<b>TOTALS</b>	<b>549</b>	<b>541</b>	<b>586</b>	<b>624</b>	<b>636</b>	<b>701</b>	<b>726</b>	<b>789</b>
<b>Engineering</b>								
Aerospace	42	80	91	79	113	167	199	210
Chemical	—	—	—	—	—	—	—	30
Civil	—	—	—	73	120	169	241	307
Electronic	233	374	525	498	576	623	610	630
Industrial	41	66	81	76	77	87	121	133
Mechanical	116	165	237	262	276	269	285	284
<b>TOTALS</b>	<b>432</b>	<b>685</b>	<b>934</b>	<b>988</b>	<b>1162</b>	<b>1315</b>	<b>1456</b>	<b>1594</b>
<b>Arts &amp; Sciences</b>								
Accountancy	12	32	57	95	133	159	179	208
Bus. Mgmt.	66	123	209	339	408	408	441	472
Marketing	4	19	29	28	28	36	36	56
Biological Sci.	25	55	71	118	177	196	261	302
Educ., Elem. 1/	—	—	—	—	197	237	45	15
Educ., Sec.	—	—	5	20	22	21	42	62
Language Arts	10	11	11	4	47	94	217	255
Mathematics	19	50	74	99	121	142	185	208
Physical Ed.	57	80	102	125	153	168	174	185
Physical Sci.	14	31	44	46	57	73	97	108
Social Sci.	21	35	92	263	273	319	569	653
<b>TOTALS</b>	<b>228</b>	<b>436</b>	<b>694</b>	<b>1137</b>	<b>1616</b>	<b>1853</b>	<b>2246</b>	<b>2524</b>
<b>Campus Totals</b>	<b>1209</b>	<b>1662</b>	<b>2214</b>	<b>2749</b>	<b>3414</b>	<b>3869</b>	<b>4428</b>	<b>4907</b>

1/ Starting in 1963 direct majors in Elementary Education were phased out and students with this objective majored instead in other fields, such as Language Arts and Social Science.



**Table II. TRENDS IN ENROLLMENT BY CLASS LEVEL,  
BY ENROLLMENT STATUS, AND BY SEX**

**San Luis Obispo Campus, Fall 1956 — Fall 1965**

**Part A.—Enrollment of Regular Students by Class Level, & % Lower Div.**

Year (Fall)	Fresh	Soph	Junior	Senior	Under- Grads	% Lower Division	Grads.	Total Reg.
1956	1151	954	828	702	3635	57.9	50	3685
1957	1111	1043	893	857	3904	55.2	42	3946
1958	1487	1147	782	459	3875	68.0	52	3938
1959	1269	1380	998	482	4129	64.2	44	4210
1960	1438	1357	1000	654	4449	62.8	48	4497
1961	1736	1359	930	764	4789	64.6	49	4838
1962	1872	1661	1015	846	5394	65.5	68	5462
1963	1901	1761	1218	940	5820	62.9	88	5908
1964	2244	1301	1386	1481	6412	55.3	110	6522
1965	2233	1502	1356	1633	6724	55.5	131	6855

Note: From 1958 through 1963, class level was determined by units remaining to be completed in the major. From 1964, class level is based on accumulated units.

**Part B—Enrollment Status**

Fall	Individuals		%	
	Reg.	Limited	Total	Limtd.
1956	3685	105	3790	2.8
1957	3946	165	4111	4.0
1958	3938	244	4182	5.8
1959	4210	267	4477	6.0
1960	4497	216	4713	4.6
1961	4838	263	5101	5.2
1962	5462	339	5801	5.8
1963	5908	402	6310	6.4
1964	6522	382	6904	5.5
1965	6855	370	7225	5.1

**Part C—Enrollment by Sex**

Fall	Men	Women	Total	% Wom.
1956	3523	267	3790	7.0
1957	3651	460	4111	11.2
1958	3684	498	4182	11.9
1959	3827	650	4477	14.5
1960	3886	827	4713	17.5
1961	3999	1102	5101	21.6
1962	4386	1415	5801	24.4
1963	4778	1532	6310	24.3
1964	5211	1693	6904	24.5
1965	5348	1877	7225	26.0

**Kellogg Campus, Fall 1956 — Fall 1965**

**Part A.—Enrollment of Regular Students by Class Level, & % Lower Div.**

Year (Fall)	Fresh	Soph	Junior	Senior	Under- Grads	% Lower Division	Grads.	Total Reg.
1956	143	179	88	90	500	64.4	0	500
1957	308	175	152	117	752	64.2	2	754
1958	515	444	157	65	1181	81.2	0	1185
1959	678	580	283	94	1635	76.9	0	1635
1960	710	705	376	358	2149	65.8	4	2153
1961	1037	993	507	90	2627	77.3	14	2641
1962	1580	858	657	176	3271	74.5	14	3285
1963	1604	970	730	381	3685	69.8	16	3701
1964	1605	1053	916	629	4203	63.2	28	4231
1965	1425	1024	1040	1177	4666	52.5	41	4707

**Part B—Enrollment Status**

Fall	Individuals		%	
	Reg.	Limited	Total	Limtd.
1956	500	4	504	0.8
1957	754	44	798	5.5
1958	1185	24	1209	2.0
1959	1635	27	1662	1.6
1960	2153	61	2214	2.8
1961	2641	108	2749	3.9
1962	3285	129	3414	3.8
1963	3701	168	3869	4.7
1964	4231	197	4428	4.4
1965	4707	200	4907	4.1

**Part C—Enrollment by Sex**

Fall	Men	Women	Total	% Wom.
1956	504	0	504	
1957	798	0	798	
1958	1209	0	1209	
1959	1662	0	1662	
1960	2214	0	2214	
1961	2428	321	2749	11.7
1962	2804	610	3414	17.9
1963	3095	774	3869	20.0
1964	3420	1008	4428	22.8
1965	3752	1155	4907	23.5

**Table III. TRENDS IN FTE MAJORS AND FTE TAUGHT IN  
ENABLING ACT AND CLOSELY RELATED SUPPORTING FIELDS**

**Fall 1963 — Fall 1965, by Campus**

Subject Fields	Fall 1963		Fall 1964		Fall 1965	
	FTE Majors	FTE Taught	FTE Majors	FTE Taught	FTE Majors	FTE Taught
<b>SAN LUIS OBISPO</b>						
Agriculture	1522	896	1604	930	1637	950
Engineering	2156	1109	2390	1143	2264	1144
Business (& Econ.)	319	453	387	536	475	619
Home Economics	332	99	377	119	458	140
Physical Science	83	572	100	614	126	664
Biological Science	231	354	263	451	263	451
Mathematics	202	835	239	955	288	962
TOTALS	4845	4318	5360	4748	5511	4930
All Other Fields	1338	1865	1446	2058	1599	2180
Campus Totals	6183	6183	6806	6806	7110	7110
Percent Emphasis						
Fields of Campus Totals	78.4	69.8	78.8	69.8	77.5	69.3
<b>KELLOGG CAMPUS</b>						
Agriculture	669	353	707	418	731	426
Engineering	1289	616	1424	747	1544	794
Business	584	422	637	454	713	524
Physical Science	64	363	89	424	104	432
Biological Science	183	198	243	246	289	271
Mathematics	131	422	175	461	197	484
TOTALS	2920	2374	3275	2750	3578	2931
All Other Fields	807	1353	997	1522	1099	1746
Campus Totals	3727	3727	4272	4272	4677	4677
Percent Emphasis						
Fields of Campus Totals	78.3	63.7	76.7	64.4	76.5	62.7

Note: FTE Majors is full-time equivalent students (15 units) enrolled in each subject field as majors. FTE Taught is the teaching load in each subject field represented by FTE students enrolled in classes in that field, regardless of major.



Table IV. COMPONENTS OF FALL ENROLLMENT

By Campus, Fall 1963 — Fall 1965

Enrollment Components	Fall—1963		Fall—1964		Fall—1965/1	
	No.	%	No.	%	No.	%
<b>San Luis Obispo Campus</b>						
First Time Freshmen ----	1258	21.1	1499	22.7	1121	16.3
New Transfers -----	819	13.7	881	13.3	875	12.7
Return. & Contin. Studts. -	3897	65.2	4223	64.0	4883	71.0
Total Undergraduates --	5974	100.0	6603	100.0	6879	100.0
<b>Kellogg Campus</b>						
First Time Freshmen ----	742	19.3	899	20.5	707	14.6
New Transfers -----	584	15.2	625	14.2	754	15.6
Return. & Contin. Studts. -	2519	65.5	2862	65.3	3371	69.8
Total Undergraduates --	3845	100.0	4386	100.0	4832	100.0

1/ Effective Fall 1965, freshman admission requirements included a high school GPA and aptitude test score which results in an eligibility index among the upper one-third of California high school graduates.

Table V. SCHOLARSHIPS

San Luis Obispo and Kellogg Campuses — 1965-66

Miscellaneous Awards (Not administered by College)		Awards Administered by College	
Amount	Number	Number	
Less than \$50	11		
\$50 - 100	138	22	
\$101 - 150	33	6	
\$151 - 200	26	9	
\$201 - 250	14	15	
\$251 - 300	11	16	
\$301 - 350	8	13	
\$351 - 400	1		
\$401 - 500	12	99	
\$501 - 600	1	1	
\$701 - 1,000	6		
Over \$1,000	3	189 for total of	
		\$72,700	
TOTAL	264	SCHOLARSHIP SUMMARY	
for total of \$49,564		Cal Poly	189 for \$ 72,700
		Misc.	264 for \$ 49,564
		TOTAL	453 \$122,264

Table VI. GEOGRAPHIC ORIGIN OF STUDENTS

Counties of Origin		1960		1965		Counties of Origin		1960		1965	
		No.	%	No.	%			No.	%	No.	%
San Luis Obispo Campus, Fall 1960 and Fall 1965											
Alameda	178	3.8	282	3.9	San Benito	12	0.2	25	0.3		
Amador	3	0.1	2	—	S.Bernardino	115	2.4	121	1.7		
Butte	8	0.2	17	0.2	San Diego	107	2.3	116	1.6		
Calaveras	2	—	5	0.1	San Francisco	79	1.7	97	1.3		
Colusa	4	0.1	11	0.2	San Joaquin	46	1.0	110	1.5		
Contra Costa	126	2.7	266	3.7	S. L. Obispo	473	10.0	1048	14.5		
Del Norte	3	0.1	4	0.1	San Mateo	129	2.7	206	2.8		
El Dorado	14	0.3	10	0.1	Sta. Barbara	263	5.6	474	6.6		
Fresno	82	1.7	109	1.5	Santa Clara	133	2.8	350	4.8		
Glenn	11	0.2	13	0.2	Santa Cruz	47	1.0	59	0.8		
Humboldt	30	0.6	37	0.5	Shasta	14	0.3	23	0.3		
Imperial	31	0.6	28	0.4	Sierra	1	—	1	—		
Inyo	14	0.3	20	0.3	Siskiyou	11	0.2	19	0.3		
Kern	168	3.6	277	3.8	Solano	42	0.9	59	0.8		
Kings	38	0.8	62	0.9	Sonoma	40	0.8	70	1.0		
Lake	12	0.2	3	—	Stanislaus	67	1.4	84	1.2		
Lassen	11	0.2	7	0.1	Sutter	13	0.3	23	0.3		
Los Angeles	946	20.1	1280	17.7	Tehama	10	0.2	7	0.1		
Madera	27	0.6	39	0.5	Trinity	1	—	0	—		
Marin	37	0.8	81	1.1	Tulare	83	1.8	117	1.6		
Mariposa	0	—	3	—	Tuolumne	8	0.2	15	0.2		
Mendocino	21	0.4	34	0.5	Ventura	116	2.5	167	2.3		
Merced	30	0.6	72	1.0	Yolo	16	0.3	26	0.4		
Modoc	3	0.1	7	0.1	Yuba	3	0.1	1	—		
Mono	2	—	3	—							
Monterey	94	2.0	136	1.9	California	4053	86.0	6530	90.3		
Napa	16	0.3	41	0.6	Other States	374	7.9	354	4.9		
Nevada	6	0.1	14	0.2	Foreign	286	6.1	347	4.8		
Orange	115	2.4	177	2.4	Total						
Placer	15	0.3	21	0.3	Enrollment	4713	100.0	7231	100.0		
Plumas	4	0.1	3	—							
Riverside	63	1.3	90	1.2							
Sacramento	110	2.3	158	2.2							
					* Includes auditors.						

Kellogg Campus, Fall 1960 and Fall 1965

Alameda	6	0.3	19	0.4	S. L. Obispo	2	0.1	5	0.1
Contra Costa	2	0.1	21	0.4	San Mateo	5	0.2	22	0.4
Fresno	1	—	8	0.2	Sta. Barbara	11	0.5	16	0.3
Imperial	45	2.0	46	0.9	Santa Clara	7	0.3	17	0.3
Inyo	3	0.1	6	0.1	Solano	1	—	0	—
Kern	6	0.3	17	0.3	Sonoma	0	—	33	0.7
Los Angeles	1277	57.7	2844	58.0	Stanislaus	11	0.5	8	0.2
Monterey	7	0.3	7	0.1	Tulare	9	0.4	14	0.3
Napa	2	0.1	3	0.1	Ventura	22	1.0	44	0.9
Orange	137	6.2	295	6.0	All Other				
Riverside	140	6.3	280	5.7	Counties	7	0.3	39	0.8
Sacramento	3	0.1	15	0.3					
S.Bernardino	316	14.3	681	13.9	California	2090	94.4	4555	92.8
San Diego	57	2.6	92	1.9	Other States	45	2.0	70	1.4
San Francisco	3	0.1	8	0.2	Foreign	79	3.6	282	5.7
San Joaquin	10	0.4	15	0.3	Total	2214	100.0	4907	100.0



Table VII-A. BACHELOR'S DEGREES BY MAJOR,  
AND TOTAL MASTER'S DEGREES  
San Luis Obispo Campus, 1958-59 to 1965-66

Major	58-59	59-60	60-61	61-62	62-63	63-64	64-65	65-66
<b>Agriculture</b>								
Ag. Bus. Mgmt.	—	—	—	14	19	22	43	45
Ag. Engr.	24	10	16	20	17	11	15	15
Mech. Ag.	24	17	25	15	16	12	17	18
Animal Husb.	55	43	28	37	43	58	53	57
Crops	17	12	17	18	15	21	20	29
Fruit Prod.	1	7	6	1	5	10	7	6
Dairy Husb.	6	12	6	9	4	10	8	8
Dairy Mfg.	4	5	4	4	13	7	7	5
Farm Mgmt.	11	17	11	10	22	23	19	17
Food Proc.	—	—	—	—	3	5	3	7
Orn. Hort.	7	5	4	9	7	8	9	15
Poultry Ind.	8	7	8	7	3	6	4	5
Soil Science	17	19	12	19	12	13	15	19
<b>TOTALS 1/</b>	<b>174</b>	<b>154</b>	<b>137</b>	<b>163</b>	<b>179</b>	<b>206</b>	<b>220</b>	<b>246</b>
<b>Engineering</b>								
Aeronautical	53	53	38	40	25	31	22	33
Air Cond. & Ref.	26	18	18	14	17	12	24	24
Architectural 2/	32	45	43	36	42	67	71	58
Electrical	29	30	25	17	26	21	28	23
Electronic	71	54	68	58	64	57	73	65
Industrial	21	15	16	23	13	26	21	15
Mechanical	140	111	112	77	68	73	71	48
Metallurgical	—	—	—	6	11	7	5	10
<b>TOTALS</b>	<b>372</b>	<b>326</b>	<b>320</b>	<b>271</b>	<b>266</b>	<b>294</b>	<b>315</b>	<b>276</b>
<b>Applied Arts</b>								
Business	—	—	2	13	34	32	56	82
Educ., Elem.	41	29	39	61	63	72	95	66
English	4	9	15	1	1	0	3	33
Home Ec.	8	12	17	16	36	40	57	63
Physical Ed.	18	26	17	23	32	26	29	29
Printing	33	21	11	14	12	13	21	13
Tech. Arts	—	16	19	24	37	31	31	46
Tech. Journ.	11	1	—	6	10	10	7	9
<b>TOTALS</b>	<b>115</b>	<b>114</b>	<b>120</b>	<b>158</b>	<b>225</b>	<b>224</b>	<b>299</b>	<b>341</b>
<b>Applied Sciences</b>								
Biological Sci.	14	14	12	15	19	26	32	49
Mathematics	61	70	49	48	53	61	57	59
Physical Sci.	20	8	14	14	12	10	7	10
Biochemistry	3	4	8	9	6	6	8	6
Social Sci.	16	16	17	12	16	29	46	43
<b>TOTALS</b>	<b>114</b>	<b>112</b>	<b>100</b>	<b>98</b>	<b>106</b>	<b>132</b>	<b>150</b>	<b>167</b>
<b>Totals (Bachelor's)</b>	<b>775</b>	<b>706</b>	<b>677</b>	<b>690</b>	<b>776</b>	<b>856</b>	<b>984</b>	<b>1030</b>
<b>Master's</b>	<b>41</b>	<b>51</b>	<b>65</b>	<b>53</b>	<b>66</b>	<b>70</b>	<b>98</b>	<b>127</b>
<b>Campus Totals</b>	<b>816</b>	<b>757</b>	<b>742</b>	<b>743</b>	<b>842</b>	<b>926</b>	<b>1082</b>	<b>1157</b>

1/ Ag. Tech. Certificates not included above:

25 30 21 14 35 47 41 46

2/ For 1964-65 includes 6 Bachelor of Architecture (5-year) degrees, and in 1965-66 includes 5 Bachelor of Architecture degrees.

Table VII-B. BACHELOR'S DEGREES BY MAJOR,  
AND TOTAL MASTER'S DEGREES  
Kellogg Campus, 1958-59 to 1965-66

Major	58-59	59-60	60-61	61-62	62-63	63-64	64-65	65-66
<b>Agriculture</b>								
Ag. Bus. Mgmt.	11	16	21	10	11	18	17	15
Agronomy	25	11	8	14	5	9	11	7
Animal Science	16	12	12	16	13	21	21	17
Fruit Ind.	6	3	7	6	5	5	7	6
Land. Arch.	6	16	17	12	16	19	33	17
Orn. Hort.	15	13	13	8	10	15	15	13
Service & Insp.	—	—	5	7	9	5	7	8
<b>TOTALS</b>	<b>79</b>	<b>71</b>	<b>83</b>	<b>73</b>	<b>69</b>	<b>92</b>	<b>111</b>	<b>83</b>
<b>Engineering</b>								
Aerospace	—	—	5	4	7	15	10	19
Civil	—	—	—	—	—	4	22	37
Electronic	4	30	39	69	69	69	72	72
Industrial	7	7	15	12	15	18	17	17
Mechanical	4	29	35	26	26	32	34	45
<b>TOTALS</b>	<b>15</b>	<b>71</b>	<b>93</b>	<b>114</b>	<b>135</b>	<b>156</b>	<b>190</b>	
<b>Arts &amp; Sciences</b>								
Accountancy	4	8	9	22	31	37	44	
Bus. Mgmt.	23	35	41	57	91	73	83	
Marketing	1	4	9	7	11	15	9	
Biological Sci.	9	7	12	16	24	26	31	
Educ., Elem.	—	—	—	—	3	22	13	
Language Arts	—	5	2	1	7	11	21	
Mathematics	7	16	23	36	22	31	18	
Physical Ed.	4	20	20	18	25	21	28	
Physical Sci.	2	6	7	7	7	13	14	
Social Sci.	7	9	15	20	25	29	59	
<b>TOTALS</b>	<b>57</b>	<b>110</b>	<b>138</b>	<b>184</b>	<b>246</b>	<b>273</b>	<b>320</b>	
<b>Total (Bachelor's)</b>	<b>79</b>	<b>143</b>	<b>264</b>	<b>304</b>	<b>367</b>	<b>473</b>	<b>545</b>	<b>593</b>



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