CALIFORNIA STATE
POLYTECHNIC COLLEGE
BULLETIN

CIRCULAR OF INFORMATION
1948-1949

SAN LUIS OBISPO AND SAN DIMAS
CALIFORNIA
CALIFORNIA STATE
POLYTECHNIC COLLEGE
BULLETIN
SAN LUIS OBISPO
and the
VOORHIS UNIT
SAN DIMAS, CALIFORNIA

CIRCULAR OF INFORMATION
1948-1949

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FOREWORD

California State Polytechnic College is dedicated to the principle that students need to know the technical and manual processes in agriculture, engineering, and other occupational fields, as well as the theories which govern these processes, and further, that students who intend to become teachers in these and related subjects should master practical techniques in addition to teaching methods.

This phase of occupational training complements the older, more orthodox concept of higher education as a process of developing the mind toward creative thinking. To the theory that higher education should confine itself to broad, cultural training leading to professional careers, the California State Polytechnic College has added a new concept—that of providing occupational training on a college level leading to technical or vocational as well as professional careers.

In many states, this need for a dual concept of higher public education is recognized in the organization of the collegiate system. A university dedicated to the fine arts and sciences is paralleled by a college of agriculture and mechanic arts, each providing a necessary function in the training of the young people of the State.

When the California State Polytechnic College was established in 1901, the founders had in mind such a service. The legislative act which created the school included the statement that “the purpose of the school is to furnish to young people of both sexes mental and manual training in the arts and sciences, including agriculture, mechanics, engineering, business methods, domestic economy, and such other branches as will fit the students for the nonprofessional walks of life.” It further stated that “this article shall be liberally construed, to the end that the school may at all times contribute to the industrial welfare of the State.”

In carrying out the responsibility of providing California young people with an agriculture and mechanics arts type of education on a college level, California State Polytechnic College differs in three major respects from the typical “A & M” college:

1. California Polytechnic places major emphasis on instruction rather than on research.

2. It uses an unique project system of instruction which incorporates the philosophies of “learning by doing” and “earning while learning”.

3. It uses an “upside down” educational plan, which is characterized by the grouping of as many technical and job-getting courses in the first two years as possible. The total course content of any of the four-year curricula is substantially the same as in a similar major in a typical “A & M” college—but is offered in an inverted order.
Above: The administration-classroom building is situated on a knoll near the center of the 2,233-acre campus and farm at San Luis Obispo, which is just halfway between Los Angeles and San Francisco. The main line of the Southern Pacific Railroad and Roosevelt Highway both bisect the campus, while Highway 101 is less than one mile from the college property.

Left: From the beautiful nonsectarian chapel on the campus of the Voorhis Branch, San Dimas, can be seen snow-capped Mt. Baldy, the center of Los Angeles County's winter playground. The Voorhis branch of the college is located in the heart of the citrus producing belt of Southern California, less than a 40-minute drive from downtown Los Angeles.
Above: Two of the college's modern dormitories which provide convenient, comfortable and inexpensive housing for single men. Total dormitory facilities on the campus are capable of housing more than 1,000 single men.

Left: President Julian A. McPhee, who is also State Director of Vocational Education in California, chats with two G. I. animal husbandry students who are co-owners of a sheep project.
Top: Shown here is a portion of the "veterans' village" which houses 125 veteran families on the campus. An additional 188 trailers are expected to be available by September, 1947, on a site already prepared. Center: The California Polytechnic College glee club is just one of many faculty-supervised extra-curricular activities provided for the enjoyment of the students. Bottom: Crowds of students and townspeople come often to the big, indoor swimming pool to witness intercollegiate and intramural swimming and diving meets.
Top: Animal husbandry students show a class of beef animals at Poly Royal.

Center: A shop-made buck rake is attached to a shop-made tractor by agricultural engineering students.

Bottom: Care and handling of light horses is learned by animal husbandry students at the college's Thoroughbred breeding unit.
Right: Students learn to prune the college orchard as part of their laboratory work in fruit production and crops production.

Below: This dairy production student cares for his own project cows after he has assisted in the milking of the college-owned herd.

Above: This class of horticultural students, under direction of their instructor, is digging up gladiolus bulbs from a project owned by two of the students.

Left: After this poultry student finishes his classroom work each day, he cares for his own flock of White Leghorns and "earns while he learns."
Top: Students are seen here working in the air conditioning and refrigeration laboratory, one of the finest equipped laboratories in this field on the Pacific Coast.

Bottom: Aeronautical engineering students have several large shops for construction, and engine overhaul, plus a new 100 by 160-foot hangar on the college's flight strip.
Top: Freshman electrical engineering students work out problems in the power laboratory.

Right: A new major is electronic and radio engineering. Seen here are students installing new equipment in the electronic laboratory.

Left: Students are shown here learning the operation of a Linotype machine. Printing majors are trained specifically as "all-around country printers."
Top: Mathematics majors learn the fundamentals of the slide rule as part of a curriculum which applies the science of mathematics to practical situations.

Center: Physical science majors spend much of their time in the chemistry and physics laboratories.

Bottom: A student majoring in life science soon masters the use of the microscope in such courses as biology, zoology, etc.
Top: A new $60,000 athletic field, including a track, baseball diamond, practice football field and field house will be completed before September, 1947.

Center: From the grandstand of the football field can be seen the natatorium, and gymnasium, with the football field in the foreground. Physical education majors will find the college well-equipped with athletic facilities.

Right: California State Polytechnic College is a member of the California Collegiate Athletic Association and enters teams in competition with such colleges as College of the Pacific, San Jose State, San Diego State, Santa Barbara College, and Fresno State.
Above: Both of these beautiful Spanish-type buildings are dormitories on the campus of the Voorhis unit, San Dimas. All classroom, dormitory, laboratory, and administrative buildings follow the same architectural pattern, which blends perfectly with the park-like atmosphere of the landscaping.
Top: A student gets some tips from his instructor on cultivating a citrus grove.

Center: The outdoor swimming pool is seen in the foreground, with the chapel and one dormitory in the background.

Left: Looking through the arch from the administrative building toward "Aunell," the dorm named in honor of the wife of the donor, Charles B. Voorhis.
CALIFORNIA STATE POLYTECHNIC COLLEGE

CALENDAR, 1948-49

Summer Quarter

- June 10-11: Thursday, Friday. Registration and Examinations for New Students
- June 12: Saturday (a.m.). Registration and Scheduling for Old * Students
- June 14: Saturday (p.m.). Scheduling of New † Students
- June 19: Monday. Classes Begin for All Students
- June 22: Saturday (noon). Last Day for Returning Registration Cards
- July 5: Tuesday. Last Day on Which Classes May Be Added, or Dropped Without Penalty
- July 22-23: Thursday, Friday. Final Examinations for Six-week Session
- July 24: Saturday. Registration and Scheduling for Old Students
- July 26: Monday. Classes Begin for All Students
- July 31: Saturday (noon). Last Day for Returning Registration Cards
- August 3: Tuesday. Last Day on Which Classes May Be Added, or Dropped Without Penalty
- September 2-3: Thursday, Friday. Final Examinations for Six-week Session

Fall Quarter

- September 1: Wednesday. Beginning of Regular Academic Year
- September 7-8: Tuesday, Wednesday. Registration and Examinations for New Students
- September 9: Thursday. Admission Day Holiday
- September 10: Friday. Registration and Scheduling for Old ‡ Students
- September 11: Saturday. Scheduling of New Students
- September 13: Monday. Classes Begin for All Students
- September 18: Saturday (noon). Last Day for Returning Registration Cards
- October 1: Friday. Last Day on Which Classes May Be Added, or Dropped Without Penalty
- October 14-15-16: Thursday, Friday, Saturday. Mid-term Examinations
- November 11: Thursday. Armistice Day Holiday
- November 22-23-24: Monday, Tuesday, Wednesday. Final Examinations
- November 24: Wednesday. End of Fall Quarter

* Old students are those students who were in attendance the quarter immediately preceding the registration date.
† New students are those students who are enrolling for the first time or who are enrolling after an absence of one or more quarters.
‡ Old students for the fall quarter will be students who were registered during the summer and/or the spring quarter.
Winter Quarter

December 1-2  Wednesday, Thursday. Registration and Examinations for New Students
December 3  Friday. Registration and Scheduling for Old Students
December 4  Saturday. Scheduling of New Students
December 6  Monday. Classes Begin for All Students
December 11  Saturday (noon). Last Day for Returning Registration Cards

December 23-  Christmas Holiday
January 2
January 3  Monday. Classes Resumed for All Students
January 4  Tuesday. Last Day on Which Classes May Be Added, or Dropped Without Penalty

January 20-21-22  Thursday, Friday, Saturday. Mid-term Examinations
March 3-4-5  Thursday, Friday, Saturday. Final Examinations
March 5  Saturday. End of Winter Quarter

Spring Quarter

March 9-10  Wednesday, Thursday. Registration and Examinations for New Students
March 11  Friday. Registration and Scheduling for Old Students
March 12  Saturday. Scheduling of New Students
March 14  Monday. Classes Begin for All Students
March 19  Saturday (noon). Last Day for Returning Registration Cards

April 1  Friday. Last Day on Which Classes May Be Added, or Dropped Without Penalty
April 15-16-17  Easter Holiday
April 21-22-23  Thursday, Friday, Saturday. Mid-term Examinations
April 25  Monday. Last Day for Filing Applications for Graduation for June Commencement

May 30  Monday. Memorial Day Holiday
June 1-2-3  Wednesday, Thursday, Friday. Final Examinations
June 3  Friday. End of Spring Quarter
June 3  Friday. Commencement
June 7  Tuesday. End of Regular Academic Year.
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CALIFORNIA STATE POLYTECHNIC COLLEGE
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President, California State Polytechnic College, San Luis Obispo
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WESLEY P. SMITH ___________________________ Assistant to State Director of Vocational Education

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Humanities Division
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Guidance, and Placement
LEO F. PHILBIN ____________________________ Registrar
LEONA M. BOERMAN __________________________ Secretary to the President
HISTORY

When California State Polytechnic was established in 1901 by the Legislature of the State of California, no level of instruction was proposed in the act which created the school. It opened as a state vocational high school and was the forerunner in California of vocational education along agricultural and industrial lines. When the idea of vocational education spread to the district high schools and ultimately became a part of the basic federal and state programs of education, California State Polytechnic continued in its role as a pioneer of vocational education. When the district high schools began providing adequate vocational instruction on a high school level, California State Polytechnic raised its level of instruction in 1927 to that of a junior college.

In 1933, when the school was made a direct administrative branch of the State Department of Education and at the same time was placed under the guidance of the Chief of the Bureau of Agricultural Education, it was changed from a junior college to a two-year and three-year technical college. The Chief of the Bureau of Agricultural Education retained the dual office from 1933 until 1945, at which time he became State Director of Vocational Education, but retained the presidency of the college.

In 1936 a degree-transfer program was added, and in 1940 the State Board of Education authorized the college to grant the Bachelor of Science degree for completion of the four-year curriculum. The first baccalaureate exercises were held in 1942.

For a period of 15 years California State Polytechnic gave skills and methods courses for agriculture teacher candidates in cooperation with the University of California, which accepted this credit toward meeting requirements of special teaching credentials in vocational agriculture. When Senate Bill No. 788 was passed in 1946 allowing state colleges to give a fifth year of instruction, the California State Polytechnic expanded its services and was accredited by the State Board of Education to recommend students directly for the special secondary credential in vocational agriculture and the special secondary limited credential in agriculture. Early in 1947 the State Board of Education granted the college the privilege of giving the training for prospective physical education teachers and recommending graduates for the special secondary credential in physical education.

In April, 1948, the California State Board of Education approved the college to recommend graduates for the general secondary teaching credential in any of the following majors: social studies, mathematics, physical science and general science, life science and general science, agriculture, and physical education.

In 1938, a completely equipped school and farm near San Dimas, in Los Angeles county, admirably situated and adaptable for technical instruction in citriculture, deciduous fruit production, agricultural inspection, and landscape gardening, was deeded to California Polytechnic by its owners, Charles B. Voorhis of Pasadena, and his son, former Congressman Jerry Voorhis. This magnificent gift was immediately put to use as a plant industries branch of the college. Although it was necessary to close the Voorhis Unit during the war period, 1942-45, it was reopened in the fall of 1945.

Because the college was equipped with the facilities and the educational pattern capable of training skilled workmen quickly, the Federal Government called upon California Polytechnic College in 1940 to take over a large share of the national defense, and later war production, training courses. National defense training classes began at California Polytechnic on September 3, 1940, at the very inception of this program in the
United States. Some of the subjects were offered 24 hours a day, seven days per week.

The first month of the calendar year of 1946 brought to a successful close the naval aviation training activities of the college which had begun three years before. During the period from January 6, 1943, to November, 1944, more than 3,600 naval aviation cadets were trained at the California Polytechnic Naval Flight Preparatory School. A few months prior to the nation-wide discontinuance of this phase of naval aviation training, which was conducted in 17 colleges in the United States, the Navy selected the college as one of eight schools to continue a new naval aviation training program. This new program began in July, 1944, and until November of that year, both programs ran concurrently. This latter program, called a Naval Academic Refresher Unit, continued through February, 1946, with a total of 1,100 trainees receiving instruction.

At the time the Naval Academic Refresher Unit was discontinued the Navy requested the school to continue with another navy training activity, but the urgent need by returning ex-servicemen for housing accommodations made it necessary for the college to decline the invitation.

Despite the fact that the naval aviation training activities of the college during the three-year period were conducted on an “all-out” basis, all regular activities of the college were maintained with no cessation of educational service. The faculty was retained with little change, with most faculty members instructing both civilian and naval students.

Another war-time activity of California Polytechnic which was concluded during the calendar year of 1946 was that of the Food Production War Training program. This program closed officially on June 30, 1946, after three years of service in training more than 123,000 California farmers and members of farm families. California Polytechnic served as state headquarters, and the president of the college was state director of this program. The program was financed by the Federal Government to provide training in methods of food production for farm workers, preservation and conservation of food for farm families, and related mechanical skills.

Considerable growth in land and facilities of the college has been necessary to keep stride with the demand on the part of students for wider offerings in agriculture, engineering, and related fields. Descriptions of the college's lands, buildings, and other facilities will be found in the section on General Information.

The college now offers the Bachelor of Science degree for completion of the four-year curriculum in the following majors:

**Agriculture**—Agricultural Engineering and Mechanics, Agricultural Inspection, Animal Husbandry, Field Crops, Truck Crops, Deciduous Fruit Production, Citrus Fruit Production, Dairy Husbandry, Dairy Manufacturing, Ornamental Horticulture, Poultry Husbandry.


**Science and Humanities**—Social Science, Mathematics, Life Science, Physical Science, Physical Education.

Two-year vocational and three-year technical curricula are offered in all agricultural majors. Two-year and three-year technical curricula are offered in engineering majors.

Upon completion of the two-year curricula in the Engineering and Agricultural Divisions, students are awarded vocational certificates. Upon completion of the three-year technical curricula, students are awarded technical certificates.
FACULTY COMMITTEES

The following faculty committees will serve at the San Luis Obispo campus during the school year 1948-49.

Instructional Council—Mr. McCorkle, Chairman; Mr. Cook, secretary; Mr. Knott, Mr. Meacham, Dr. Semans, Mr. Vard Shepard, Mr. Wilson,* Mr. Winner.

Alumni Activities—Mr. Beck, Chairman; Dr. Bowls, Mr. Colwell, Mr. Davidson, Mr. J. Jones, Mr. Jorgensen, Mr. Kennedy, Mr. McGrath, Mr. Metz.

Campus Development—Mr. Cook, Chairman; Mr. Elmer Hansen, Mr. Howes, Mr. Priestley, Mr. Troutner, Mr. Whitson.

Catalog—Mr. Kennedy, Chairman; Mr. Cook, Mr. Cruikshanks, Mr. Leary, Miss Marston, Mr. Richel.

Class Advisors and Graduation—Mr. Rickansrud, Chairman and Senior Class Advisor; Mr. Collins, Junior Class; Mr. Lonborg, Sophomore Class; Mr. Ellis, Freshman Class.

Farm Advisory—Mr. Vard Shepard, Chairman; Mr. Beck, Mr. Bennion, Mr. Erle Campbell, Dr. Carter, Mr. Dougherty, Mr. Drumm, Mr. Howes, Mr. Leach, Mr. Merson, Mr. Nelson, Mr. J. I. Thompson.

Gift, Trusts, and Scholarships—Mr. Meacham, Chairman; Mr. Glover, Mr. Stanton Gray, Mr. J. Jones, Mr. Lucksinger, Mr. Nelson, Mr. J. I. Thompson, Mr. Wilson,* Mr. Zilka.

Host—Mr. Beck, Chairman; Mr. Bloom, Mr. Bromley, Mr. Deuel, Mr. Hardgrove, Mr. McDonald, Mr. Milham, Mr. Noggle, Mr. Remund, Mr. Rickansrud, Mr. Stevenson.

Library—Mr. McGrath, Chairman; Dr. Daniels, Miss Doud, Mr. Dougherty, Mr. Garter, Mr. Johnston, Dr. Pendleton, Mr. Sankoff, Mr. M. Eugene Smith, Mr. Vorhies, Mr. Whiting, Mr. Wolf.

Placement—Mr. Winner, Chairman; Mr. J. Jones, Mr. Knott, Mr. McCorkle, Dr. Semans, Mr. Vard Shepard, Mr. Wilson.*

Public Relations—Mr. Cruikshanks, Chairman; Mr. Beck, Mr. Bennion, Mr. Couper, Mr. Davidson, Mr. Fellows, Mr. J. Jones, Mr. Kennedy, Mr. McCorkle, Mr. Radius, Mr. Dave Thomson, Mr. Wiley, Mr. Wilson.*

Registration—Mr. Winner, Chairman; Mr. Ellis, Mr. C. Jones, Mr. Lewis, Mr. Lucksinger, Miss Marston, Mr. Meacham, Mr. Nereson, Mr. Steiner, Mr. Troutner.

Student Loans—Mr. McFarland, Chairman; Mr. Beck, Mr. Knott, Mr. Meacham, Mr. Nelson.

Student Welfare and Activities—Mr. Wallace, Chairman; Mr. Warren Anderson, Mr. Beck, Mr. Davidson, Mr. Hammitt, Mr. Kennedy, Mr. Lewis, Mr. Meacham, Mr. Mott, Mr. Nereson, Mr. M. Eugene Smith, Mr. Troutner.

Teacher Education—Dr. Semans, Chairman; Dr. Bowls, Mr. Burlington, Mr. Cook, Dr. Daniels, Mr. McCorkle, Mr. McMahon, Mr. Meacham, Mr. Mott, Mr. Nereson, Dr. Noble, Mr. Vard Shepard, Dr. Snow, Mr. Whitson, Mr. Winner.

California Polytechnic School Foundation Directors—Mr. McPhee, President; Mr. McCorkle, Vice President; Mr. Lucksinger, Secretary-treasurer; Mr. Knott, Mr. Meacham, Mr. Merson, Mr. Nelson, Mr. Troutner, Mr. Wilson.*

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
† Members of the State Bureau of Agricultural Education with headquarters at California State Polytechnic College, San Luis Obispo, California.
FACULTY COMMITTEES

The following faculty committees will serve at the Voorhis campus during the school year 1948-1949.

**Instructional Council**—Mr. Wilson, Chairman; Mr. Batcheller, Mr. House, Dr. Lamiman.

**Alumni Activities**—Mr. House, Chairman; Mr. Kempton, Mr. Stull.

**Campus Development**—Mr. Batcheller, Chairman; Mr. Conard, Mr. Kempton, Mr. Wilson.

**Catalog**—Mr. Peavey, Chairman; Mr. Appel, Mr. Boltz.

**Class Advisors and Graduation**—Mr. Aschenbrenner, Chairman and Freshman Class Advisor; Mr. Lint, Sophomore Class; Mr. Welch, Junior Class.

**Farm Advisory**—Mr. Ashton, Chairman; Mr. Wittenberg.

**Host**—Mr. Conard, Chairman; Mr. Batcheller, Mr. Peavey.

**Library**—Dr. Lamiman, Chairman; Mr. Lint, Mrs. Penley.

**Placement**—Mr. Appel, Chairman; Mr. Ashton, Mr. Batcheller.

**Public Relations**—Mr. Peavey, Chairman; Mr. Stull, Mr. Wilson, Mr. Wittenberg.

**Scholarship**—Mr. House, Chairman; Mr. Batcheller, Dr. Lamiman, Mr. Peavey, Mr. Wittenberg.

**Student Loans**—Mr. House, Chairman; Mr. Boltz, Dr. Lamiman.

**Student Welfare and Activities**—Mr. Stull, Chairman; Mr. Boltz, Mr. Conrad, Mr. House, Mr. Lint, Mr. Weeks.

**Teacher Education**—Mr. Wittenberg, Chairman; Mr. Aschenbrenner.
FACULTY

McPhee, Julian A.—B.S., M.A.------------------------President

Received B.S. from University of California, 1917; M.A. from University of California, 1928.

Experience: Agricultural Extension Service, University of California; United States Navy; Director of Vocational Agriculture, Gilroy Union High School; Assistant State Supervisor of Agricultural Education, State Department of Education (California); State Supervisor of Agricultural Education, State Department of Education (California); Director, War Food Production Training Program for California; Assistant Executive Officer, Commission for Vocational Education; Director of Vocational Education (California).

President, California State Polytechnic College since 1933.

McCorkle, C. O.—B.S., M.S.----------------Assistant to the President

Received B.S. from University of California, 1927; M.S. from University of California, 1937.

Experience: Director of Agriculture and Critic Teacher, Red Bluff Union High School; Executive Secretary, California Association Future Farmers of America; Assistant Teacher Trainer Agricultural Education, Bureau of Agricultural Education; Head of Agricultural Division, California Polytechnic; Research Assistant on Giannini Foundation of Agricultural Economics, University of California; Instructor Agricultural Economics; Subject Matter Specialist, Bureau of Agricultural Education, State Department of Education (California); Assistant to President, Dean of Instruction, California State Polytechnic College.

At California State Polytechnic College since 1932.

Wilson, Harold O.—B.S.----------------Dean of Voorhis Unit, California State Polytechnic College

Received B.S. from University of California, 1932; additional study at Fresno State College; graduate study at University of California at Los Angeles.

Experience: Director of Agriculture, Excelsior Union High School, Norwalk; Instructor of Agriculture and head of the Swine Department at California Polytechnic School; Regional Supervisor of Agricultural Education, State Department of Education (California), 1941-1946.

At California State Polytechnic College since 1936. (With the exception of time spent with the Bureau of Agricultural Education.)

Meacham, Vernon H.—B.S.----------------Dean of Student Welfare

Received B.S. from University of California, 1924.

Experience: Agricultural instructor, Gilroy High School; Director of Agriculture, Manteca High School; Dairy Herdsman, California State Polytechnic College; Instructor at California State Polytechnic College; In charge of Voorhis Unit, California State Polytechnic College, 1939-1943; College Representative in charge of Navigation Program, Naval Flight Preparatory Program; Instructor mathematics and physics, Naval Academic Refresher Unit program.

At California State Polytechnic College since 1929.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
NELSON, DONALD S.—A.B.-------------------------------Business Manager
Received A.B. from Stanford, 1930.
Experience: California State Department of Finance, Budgets, and Accounts; Comptroller, Fresno State College.
At California State Polytechnic College since 1943.

WINNER, O. PAUL—B.S.------------------------Assistant Dean in Charge of Admissions, Guidance, and Placement
Received B.S. from Montana State College, 1931.
Experience: Utah Construction Company; Director of Vocational Agriculture, Valier High School, Valier, Montana; Director of Vocational Agriculture and Critic Teacher, Elk Grove Union High School; Director of Vocational Agriculture and Critic Teacher, Arroyo Grande Union High School; in charge, Training Records for Cadets in U. S. Naval Flight Preparatory School and for trainees in the Naval Academic Refresher Unit Program; Acting Recorder; Teacher Trainer of Agricultural Education 1946-47.
At California State Polytechnic College since 1940.

SHEPARD, VARD M.—B.S.------------------------Assistant Dean in Charge of Agriculture
Received B.S. in Agriculture, University of Minnesota, 1923.
At California State Polytechnic College since 1947.

KNOTT, C. E.—B.S., M.S.------------------------Assistant Dean in Charge of Engineering and Industrial Division
Received B.S., University of California, 1916; M.S., University of California, 1917.
At California State Polytechnic College since 1921.

SEMANS, HUBERT H.—A.B., M.A., Ph.D.------------------------Assistant Dean in Charge of Science and Humanities
Received A.B. from Whittier College, 1930; M.A. from the University of Southern California, 1931; Ph.D. from the University of Southern California, 1948.
Experience: Research Fellow, California Bureau of Juvenile Research, 1930-1931. Travel in England, Holland, Germany, Austria, Switzerland, and France, 1934. Teacher and Chairman of Counseling and Guidance at San Luis Obispo Junior High School, 1931-1936; Vice-Principal and Supervisor of Instruction at San Luis Obispo Junior High School, 1934-1940; Instructor at San Luis Obispo High School and Junior College, 1936-1940; Principal at Junior High School, San Luis Obispo, 1940-1945; Instructor, English and history in the Naval Academic Refresher Unit and the U. S. Naval Flight Preparatory School.
At California State Polytechnic College since 1945.
PHILBIN, LEO F.—B.S.---------------------------Registrar

Received B.S. from California State Polytechnic, 1944.

Experience: Instructor, aircraft, Naval Flight Preparatory School, California Polytechnic; Aircraft instructor, Fourth Airforce Headquarters, San Francisco; Civilian Training Administrator, Salinas Army Air Base, Salinas; Training Officer In Charge, Veterans Administration Office, San Luis Obispo.

At California State Polytechnic College since 1948.

TROUTNER, WILLIAM R.—B.S.--------------------Supervisor of Resident Students and Instructor in Plant Sciences

Graduated from California State Polytechnic College with Vocational Certificate, 1934; Received B.S., University of California (Davis), 1938.

Experience: Director of Agriculture, Pomona High School and Junior College; Director of Agriculture and Critic Teacher, San Luis Obispo Senior High School (half-time high school and half-time California State Polytechnic College); In charge of housing for U. S. Naval Flight Preparatory School and Naval Academic Refresher Unit Program; Instructor communications, Naval Flight Preparatory School.

At California State Polytechnic College since 1942.

ABEL, GEORGE C.---------------------------Electrical Engineering

Experience: From apprentice to field engineer, Westinghouse Electrical Manufacturing Co.; U. S. Navy; seven years as operating engineer, Los Angeles Railway Corp.; preliminary test engineer and installation instructor, Los Angeles Ship and Drydock Corp.; electrical foreman, West Coast Ship and Drydock.

At California State Polytechnic College since 1947.

ALDERSON, JOHN T.—B.E.------------------------Mathematics

B.E., University of Southern California, 1946.

Experience: Officer in U. S. Navy.

At California State Polytechnic College since 1947.

ANDERSON, RICHARD A.—B.S., M.S.---------------Physical Education and Athletics

B.S., University of Southern California, 1942; M.S., University of Southern California, 1947.

Experience: Playground director, lifeguard, Los Angeles Playground and Recreation Department; officer in U. S. Navy; swimming pool director, South Pasadena; assistant instructor in physical education, University of Southern California.

At California State Polytechnic College since 1947.

ANDERSON, WARREN R.—B.S.-------------------Electrical Engineering

Received B.S. in Agriculture, University of Minnesota, 1939; B.S. Electrical Engineering, Louisiana State University, 1944.

Experience: Taught agricultural science in public schools of Windom, Minnesota; Additional training at Central Signal Corps School; Plant Engineering Agency, Philadelphia; Engineering testing bureau of the Automatic Electric Company of Chicago.

At California State Polytechnic College since 1946.

*APPEL, EDWARD CARL, JR.—B.S.-----------------Agricultural Inspection

Received B.S. at Oregon State College, 1940.

Experience: Agricultural Inspection, Department of Agriculture, San Bernardino County; Deputy County Agricultural Commissioner; Served in U. S. Navy as an officer, 1944-1946.

At California State Polytechnic School since 1946.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California,
*ASCHENBRENNER, ALBERT---A.B., M.S.---------------------------English

Received A.B., Whitman College (Washington) 1940; M.S., University of Southern California, 1947; Additional graduate work, Montana University.

Experience: Custer County High School, Miles City, Montana; Infantry School, Fort Benning, Georgia; Served in U. S. Army for four years as an officer.
At California State Polytechnic College since 1947.

*ASHTON, ROBERT DONALD---B.A.-----------------Citrus Fruit Production and Physical Education

Received B.A. from Whittier College, 1927; Additional graduate work at the University of Southern California.

Experience: Director of Physical Education and Athletics at Excel-
sior Union High School, Norwalk, California, 1927-1946; Owner and operator of a citrus grove, 1930 to date.
At California State Polytechnic School since 1946.

*BATCHELLER, OLIVER AMBROSE---B.S.----------------------------Ornamental Horticulture

Received B.S. from Oregon State College in 1936; Additional grad-
uate work at Oregon State College.

Experience: Assistant Farm Advisor, Oregon; Foreman and sale-
man, California Nursery Company, California; In charge of Nursery Exhibit World's Fair in San Francisco; Served in the Field Artillery, U. S. Army as a Plans and Training officer, 1941 to 1946.
At California State Polytechnic College since 1946.

BAYLESS, HILDRETH PEARL---B.S., M.A.----------------------English

Received B.S. from Tarkio College (Missouri) 1925; M.A. from University of Denver, 1939; Additional graduate work at University of Wyoming and University of Southern California.

Experience: Instructor in English, Tarkio College; Instructor of English in high schools of Missouri, Iowa, and Wyoming; Instructor of English, Mare Island Naval Apprentice School, Vallejo, California.
At California State Polytechnic College since 1946.

BECK, CARL G.---B.S.---Guidance, Accounting, and Agricultural Economics

Received B.S. from Colorado State College, 1921. Additional graduate study at Colorado State and University of California at Berkeley and Davis.

Experience: Director of Agriculture, Del Norte Union High School (Colorado); Principal, Del Norte Union High School (Colorado); Director of Agriculture at Middletown Union High School and Colusa Union High School, California; with American Expeditionary Force, Field Artillery, World War I; Instructor mathematics and communications, U. S. Naval Flight Preparatory School; Instructor mathematics, Naval Academic Refresher Unit; Advisor for Poly Royal, 1933---
At California State Polytechnic since 1832.

BENNION, LYMAN L.---B.S.-----------------Head of Animal Industries Activities

Received B.S. from Utah State College, 1929.

Experience: Sales Department Purina Mills; American Packing Company, Union Stock Yards, Ogden, Utah; Director of Agriculture, Salinas Union High School; Agricultural Extension Service, University of California.
At California State Polytechnic College since 1938.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
BETZ, ELLARD W.—B.A.-----------------------------Machine Shop
B.A., Santa Barbara State College, 1942.
Experience: U. S. Navy; teacher of industrial arts, Victor Valley
High School, Victorville.
At California State Polytechnic College since 1947.

BLOOM, EMMETT A.—B.S.-------------------------Animal Husbandry
Received B.S. from University of California at Davis in Animal
Sciences, 1934.
Experience: Zoology laboratory assistant, University of California;
Teacher Vocational Agriculture, Ripon Union High School; Teacher Voc- 
a tional Agriculture, Layton Joint Union High School; Teacher Vocational
Agriculture, Corning Union High School.
At California State Polytechnic College since 1946.

*BOLTZ, HOWARD O.—B.S., M.S.-------------------Ornamental Horticulture
B.S., University of California, 1941; M.S., University of Califor-
nia, 1947.
Experience: Officer in U. S. Army; landscape architect in private
practice; instructor in landscape gardening, Albany Evening High School,
Albany, California.
At California State Polytechnic College since 1946.

BOWLS, WOODFORD E.—A.B., M.A., Ph.D.--------Head of Physical Science
Received A.B. at University of California in 1932; M.A. in 1935; and
Ph.D. in 1937.
Experience: Pacific Gas and Electric Company, Maintenance Fore-
man in summer camps; teaching fellow in physics at University of Cali-
ifornia; Teaching Assistant in physics at University of California; In
charge of the physics program for the U. S. Naval Flight Preparatory
School and the Naval Academic Refresher Unit.
At California State Polytechnic College since 1937.

BOYLE, KENNETH D.—B.S.------------------------Dairy Manufacturing
B.S., University of Minnesota, 1942.
Experience: Butter and ice cream, Neepawa Creamery and Produce 
Co., Neepawa, Manitoba, and Central Creameries, Brandon, Manitoba; 
Royal Canadian Air Force; on research staff and foreman in experimental
plant for food processing and market milk, Golden State Co., Ltd., San 
Francisco.
At California State Polytechnic College since 1947.

BROMLEY, J. PHILLIP—B.S., M.S.----------------Economics and Agricultural Economics
Received B.S. in business education from the University of Southern 
California, 1936; Additional graduate work, Columbia University, Texas 
A. & M., and the University of California.
Experience: Taught elementary school, 1934-36; taught commerce, 
San Diego State College, 1936-1942; Radar officer, U. S. Naval Reserve, 
1942-1945; Commerce Instructor, San Diego State College, 1945-1946.
At California State Polytechnic College since 1947.

BROWN, HOWARD—B.S.-----------------------------Ornamental Horticulture
Received B.S. in Agriculture from California Polytechnic in 1943.
Experience: Served in the U. S. Army Air Corps 1943-1946; Assist-
ant Instructor of Ornamental Horticulture at California State Polytechnic
College from 1946 to 1947.
At California State Polytechnic College since 1946.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
BURLINGHAM, HERBERT H.—B.S.-----------Agricultural Education and Teacher Training
B.S., Oregon State College, 1929; graduate work, University of California.
Experience: Director of agriculture, Willits Junior-Senior High School; director of agriculture, Madera Union High School; director of Agriculture and critic teacher, Paso Robles Union High School; four years as regional supervisor, State Bureau of Agricultural Education, California.
At California State Polytechnic College since 1948.

Caldwell, Benton—B.S.------------------------Poultry Husbandry
Received B.S. from California State Polytechnic College, 1947, in poultry husbandry.
Experience: Served with the U. S. Navy, 1942-46.
At California State Polytechnic College since 1947.

Campbell, Erle Sims.—Agricultural Mechanics and Farm Superintendent
Experience: Farm superintendent for California Packing Corporation on peach, prune, and plum orchards and vineyards; Farm superintendent for John Treanor on prunes, pears, and wine grapes; Past 16 years superintendent of beef cattle, hog, sheep, hay and grain on Lake County Ranch.
At California State Polytechnic College since 1947.

Campbell, Thomas G.—B.S., M.S.-----------Agricultural Engineering
B.S., Agricultural and Mechanical College of Texas, 1937; M.S., Agricultural and Mechanical College of Texas, 1947.
At California State Polytechnic College since 1947.

Carter, Logan Sampson—B.S., Ph.D.-------------Soils
Received B.S., Oregon State College, 1930; Received Ph.D., Michigan State College, 1934.
Experience: Instructor in Soils, Michigan State College, 1930-1934; U. S. Department of Agriculture Soil Conservation Service, new employee training, 1934-1939; Author of numerous publications on chemical and biological changes in soils and soil conservation.
At California State Polytechnic College since 1947.

Clay, Henry P.—B.S.-----------------------------Agricultural Engineering
Received B.S. in Agriculture, Michigan State College, 1929; one year test course with General Electric Company.
Experience: Taught tractor and truck short course at Michigan State College; Research with the United States Department of Agriculture; 11 years teaching experience at Texas Technological College; Associate Professor of Agricultural Engineering at Texas Technological College, Lubbock, Texas.
At California State Polytechnic College since 1946.

Clinnick, Mansfield L.—B.S.-----------------------Welding
Received B.S. in aeronautical maintenance and operations engineering, California State Polytechnic College, 1947.
Experience: Experience in welding at Moore Drydock Co. and in airplane mechanics at Matson Navigation Co., Air Transport Division; holds A&E Mechanics license; served in the U. S. Marine Corps, 1942-1946, as an officer from 1944.
At California State Polytechnic College since 1947.
COLLINS, SPELMAN B.—B.S.—Head of Sheep Husbandry Department
Received B.S., University of California, 1925.
Experience: Engaged in range sheep business both as foreman and owner; Director of Agriculture, Middletown, Calistoga, and Livermore high schools; instructor aero engines, U. S. Naval Flight Preparatory School; instructor mathematics, Naval Academic Refresher Unit.
At California State Polytechnic College since 1940.

COLWELL, ARTHUR L.—B.S.—Mathematics and Supervisor Veterans' Housing Project
Received B.S., University of Idaho, 1925; graduate study at University of Southern California, Stanford University, and University of California.
Experience: Superintendent and Principal, Kuna High School, Kuna, Idaho; Instructor Mathematics, Anaheim Union High School, Anaheim, California; Principal, Templeton Union High School, Templeton, California; Instructor Mathematics and Science, Oakland City Schools, Oakland, California; Principal, South Fork Union High School, Garberville, California; Instructor Mathematics, Fortuna Union High School, Fortuna, California; taught mathematics and physics in the U. S. Naval Flight Preparatory School and the Naval Academic Refresher Unit.
At California State Polytechnic College since 1943.

*CONARD, HAVAN Q.—B.S.—Agricultural Mechanics
Received B.S., Iowa State College in Agricultural Engineering, 1943.
Experience: Taught in Engineering Department, Iowa State College, 1945 and 1946; served as an aircraft armament officer in the U. S. Armed Forces 1943-45.
At California State Polytechnic College since 1946.

COOK, DAVID W.—B.S.—Mathematics and Electrical Engineering
Received B.S., University of California, 1937.
Experience: Examiner Board of Fire Underwriters of the Pacific; Engineer, Insurance Company of North America; taught navigation in U. S. Naval Flight Preparatory School and acted as head of the Mathematics Department for the Naval Academic Refresher Unit and U. S. Naval Flight Preparatory School.
At California State Polytechnic College since 1941.

COOL, LEONARD R.—B.S.—Electrical Engineering
B.S., University of California, 1947.
Experience: U. S. Navy; junior estimator, Pacific Gas and Electric Co.
At California State Polytechnic College since 1947.

CRUICKSHANKS, ANDREW N.—A.B., M.A.—Political Science
Received A.B., University of California, 1931; M.A., Stanford University, 1933.
Experience: Sacramento High School, instructor in social studies, 1933-1936; Fort Bragg Schools, social studies and economics, 1936-1947; extensive experience in evening school work covering international relations and community forums.
At California State Polytechnic College since 1947.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
CULBERTSON, GUY K.----------------------------Printing

Experience: 16 years as apprentice, journeyman printer, composing room foreman, Deadwood, South Dakota; U. S. Army; five years as machinist-operator, Santa Monica and Venice, California; member of committee directing on-the-job apprentice training for International Typographical Union in Southern California.

At California State Polytechnic College since 1947.

DANIELS, NEIL M.—B.S., M.A., Ph.D.-------Acting Chairman of Education and Psychology Department

Received B.S., Columbia University, 1933; M.A., Stanford University, 1934; Ph.D., Stanford University, 1946.

Experience: Instructor, Extension Division, Columbia University, 1932-33; Lecturer, Stanford University, summers, 1934, 1940, 1942, and Acting Assistant Professor, School of Education Summer, 1946; Instructor, Santa Rosa Junior College, 1934-43; Instructor, Sacramento College, spring, 1946; Civilian Special Services and Public Relations Representative, Army Specialized Training Program Unit, 1943; and Specialist in Training, Agricultural Extension Service, University of California, 1944 and 1945.

At California State Polytechnic College since 1946.

DAVIDSON, HAROLD P.—B.S., M.A.----------Chairman of Music Department

Received B.A., Pomona College, 1929; M.A., Claremont College, 1932; additional graduate work, University of Southern California.

Experience: Director of All-City Pomona P.T.A. Chorus; Head of Music Department, Emerson Junior High School, Pomona; Master Training Teacher, Claremont College; taught English in U. S. Naval Flight Preparatory School and the Naval Academic Refresher Unit.

At California State Polytechnic College since 1936.

DEUEL, J. C.-----------------------------Housing and Student Employment

Experience: U. S. Army, Commissioned officer rank of Major; served in Cuba, Panama, Mexico, France, and Germany. Granted leave of absence from California Polytechnic, February 10, 1942, to September 1, 1945, to serve in U. S. Army. Was discharged September 1, 1945, with rank of Major.

At California State Polytechnic College since 1920.

DILTS, RALPH W.—A.B., M.A.----------Political Science and History

Received A.B. from Montana State University in history, 1936; M.A. in history and political science, Montana State University, 1938; additional graduate work at Montana State University and University of California.

Experience: Instructor secondary school at Stevensville, Montana; Assistant at Montana State University; Assistant at University of California; three years' experience with Bureau of Reclamation under Department of Interior; Instructor at Naval Academic Refresher Unit, California Polytechnic, 1944-46.

At California State Polytechnic College since 1946.

DOUD, MARJORIE—A.B., M.S.----------Physical and Biological Sciences

Received A.B. in mathematics and science, Syracuse University, 1940; M.S. in plant science, Syracuse University, 1943.

Experience: Taught two years in secondary schools and one year at Syracuse University; overseas with American Red Cross for two years.

At California State Polytechnic College since 1946.
DOUGHERTY, PAUL—B.S.—Head of Field, Fruit, and Truck Crops Department

Received B.S. from University of California, 1914.

Experience: Farm Advisor Imperial County; Farrier, United States Army; Supervisor Advanced Registry Dairy Tests, University of California; Manager Modesto Fruit Exchange; managed and operated own ranch; Director of Agriculture, Washington Union High School, Centerville; Instructor Communications in U. S. Naval Flight Preparatory School.

At California State Polytechnic College since 1930.

DRUMM, GEORGE M.—B.S., M.A.—Head of Dairy Husbandry and Dairy Manufacturing Department

Received B.S., Kansas State College, 1921; M.S. from Iowa State College, 1922.

Experience: Instructor of Dairying, University of California; Herdsman for numerous commercial dairy farms; Farm Manager, Ranch Del Monte, Carmel, and Patrick Farms, Salinas; Official judge of Jersey, Guernsey, and Holstein Friesian cattle.

At California State Polytechnic College since 1931.

ELLIS, GERALD E.—A.B.—Architectural and Engineering Drafting

Received A.B., Santa Barbara State College, 1943.

Experience: Architectural draftsman with industrial contractors for two years; served in U. S. Navy as a commissioned officer, 1943-1946.

At California State Polytechnic College since June, 1946.

ELSTON, CHARLES A.—A.B., M.S.—Mathematics

Received A.B., Santa Barbara State College, 1932; M.S. from University of Southern California, 1940.

Experience: Eight years teaching in elementary schools, Santa Barbara County, 1934-1942; Instructor of arithmetic and mechanical drawing. Head of Mathematics Department, San Luis Obispo Junior High School, 1942-1947; Instructor of mathematics, Adult Evening School, San Luis Obispo, 1942-1947; Field experience in surveying with the U.S.E.D. and the Southern Pacific Company.

At California State Polytechnic College since 1947.

ESSIG, FREDERICK MONROE—A.B., Ph.D.—Zoology and Plant Pathology

Received A.B., University of California, 1917, and Ph.D., University of California, 1920; additional graduate study at the University of Southern California for B.D.

Experience: Seven years teaching experience, Ashbury College, Kentucky, and University of California, Los Angeles; 40 months Army service World War II as chaplain.

At California State Polytechnic College since 1946.

FELLOWS, ALBERT MELVIN—Head of Printing Department

Special training courses in Journalism, Advertising, Mechanical Art and Print Shop Management; served in the U. S. Army in World War I; journeyman printer and supervisor of apprentice training programs for 30 years; superintendent of printing plants in Kansas City, Kansas, and Birmingham, Alabama.

At California State Polytechnic College since 1946.

FISHER, CLYDE P.—A.B., M.A.—Mathematics

Received A.B., University of Oklahoma, 1942; M.A., University of Southern California, 1947.

Experience: Instructor, Oklahoma University, one year; Served in U. S. Army, 1942-1945, instructor in mathematics, gunnery, and survey; Teaching assistant, mathematics, University of Southern California, 1946-1947.

At California State Polytechnic College since 1947.
FOLSOM, V. A.—B.S., M.S._Mathematics and Physics
  Received B.S. in physics, Iowa State College in 1934; M.S. in physics from Colorado University, 1937; Additional graduate work in mathematics at Southern Methodist University.
  Experience: Seven years secondary school and junior college teaching experience in California; Served as commissioned officer in U. S. Navy, 1943-1946; Assistant Professor of Mathematics at Southern Methodist University.
  At California State Polytechnic College since 1946.

FREEMYERS, RUSSELL LORAINE—A.B._Engineering Drafting
  Received A.B. and a Special Secondary in Industrial Education at Chico State College, 1946. Completed additional work at Chico State College summer sessions in 1941 and 1946.
  Experience: Served in U. S. Army Air Forces as commissioned officer, 1942-1945.
  At California State Polytechnic College since 1947.

GARTER, MORRIS GERALD—A.B., A.M._English and Visual Aids Education
  Received A.B. Degree, Western State Teachers College, 1937; A.M., University of Michigan, 1947.
  At California State Polytechnic College since 1947.

GLOVER, E. C.—B.S., A.M._Acting Head of Electrical Engineering Department
  Received B.S., Kansas State College of Agriculture and Applied Science, 1933; A.M., mathematics and industrial arts, Colorado State College of Education, 1941.
  Experience: Research Engineer, Design Engineer, Plant Electrical Engineer; five years' experience in mathematics and industrial arts in Kansas, Colorado, and California.
  At California State Polytechnic College since 1946.

GOLD, MARCUS—B.A., B.L.S._Assistant Reference Librarian
  B.A., University of California, 1942; B.L.S., University of California, 1947.
  Experience: U. S. Army; cataloging assistant, University of California Library.
  At California State Polytechnic College since 1947.

GRAVES, THEODORE G.—B.A._Air Conditioning and Refrigeration
  B.A., Humboldt State College, 1940; graduate work, Santa Barbara College.
  Experience: Instructor in wood shop, Paia School, Paia, Maui, T. H.; instructor in general metal, Maui High School, Maui, T. H.; teacher at large in drafting and wood shop, San Francisco; lecturer in metal shop, Santa Barbara College.
  At California State Polytechnic College since 1947.
Faculty

GRAY, HENRY E.—B.S., A.M.-------------------Biological Science

Received B.S., University of Missouri, 1943; M.S., University of Missouri, 1947. Completed additional graduate work at the University of Missouri, 1946 and 1947.

Experience: Instructor in applied entomology, University of Missouri, 1942-1943; Served in U. S. Navy, 1943-1946; Instructor in applied entomology and graduate student, University of Missouri, 1946.

At California State Polytechnic College since 1947.

GRAY, STANTON—B.S.----------------------Crops and Fruits

Received B.S., University of California, 1930.

Experience: Reared on diversified farm; Agricultural instructor at Kingsburg Joint Union High School, Hamilton City High School, and Corning Union High School; Instructor at California State Polytechnic College, Voorhis Unit, three years; Instructor at Yuba City Union High School; Three years' experience with fruit farms and fruit canning companies, 1943-1946.

At California State Polytechnic College 1940 to 1943 and since 1946.

GUSTAFSON, LESTER W.—B.S.----------------Acting Head of Aeronautical Engineering Department

Received B.S. Degree in aeronautical engineering, University of Minnesota, 1932; completed additional graduate study, University of Minnesota, 1933.


At California State Polytechnic College since 1947.

HALL, RICHARD-----------------------------Aeronautical Engineering

Graduate of California State Polytechnic College, 1939; holds Civil Aeronautics Authority Aircraft and Engines certificate and Ground School certificate.

Experience: Aircraft mechanic at Lockheed Aircraft in Burbank, and Hancock College of Aeronautics, Santa Maria, 1939-1940; Mechanic, Sacramento Air Depot on aircraft and aircraft engines, 1940-1946; Received training on Packard built Rolls Royce aero engines, 1942; and Allison aircraft engines, 1944.

At California State Polytechnic College since 1947.

HANSEN, ELMER N.—B.S., M.S.-------Dairy Husbandry and Manufacturing

B.S., University of Minnesota, 1923; M.S., Iowa State College, 1925; additional graduate work, Iowa State College.

Experience: U. S. Marine Corps; market milk, Franklin Cooperative Creamery, Minneapolis, and Golden State Co., Ltd., San Francisco; four years as associate professor of dairy husbandry, University of Nebraska; extension associate in dairy husbandry, Michigan State College; eighteen years as associate professor of dairy husbandry, Iowa State College; type Classification for American Guernsey Cattle Club, Peterborough, N. H.

At California State Polytechnic College since 1947.
HAMMITT, LEWIS E.—B.S., M.A.---------------------------Physics
Received B.S. in physics, Whitman College (Washington) 1926; M.A., University of Washington, 1940.
At California State Polytechnic College since 1946.

HANSEW, C. E.—B.A., M.A.------------------------Mathematics
Received B.A., Iowa State Teachers College, 1925; M.A., University of Michigan, 1937.
Experience: Teaching and administration in mathematics and physics at Baxholm, Iowa, and Durant, Michigan; Engineering and sales at National Twist Drill and Tool Company, Rochester, Michigan.
At California State Polytechnic College since 1946.

HARDGROVE, THOMAS H.—B.M.E.-----------------Mechanical Engineering
B.M.E., New York University, 1938; graduate work, New York University.
At California State Polytechnic College since 1947.

HAROLDSON, HUGH W.—B.S.---------------------Mechanical Engineering
B.S., University of California, 1939; graduate work, University of California.
At California State Polytechnic College since 1947.

HEALEY, JOHN R.—B.A.-----------------------Journalism and Publications
B.A., San Jose State College, 1941.
Experience: Reporter, San Jose News; public relations, McClellan Field, Sacramento; reporter, Sacramento Union; Valley editor, Modesto Bee.
At California State Polytechnic College since 1947.

HIGH, LEO O.—A.B., M.A.----------------------Mathematics
Received A.B., Antioch College, Ohio, 1923; M.A., Ohio State University, 1935; Additional graduate study, University of Southern California.
Experience: Instructor of mathematics and science, Van Wert County High School and Harding Junior High School, Ohio; Instructor in mathematics and science, El Segundo Senior High School, California.
At California State Polytechnic College since 1946.

HOLMQVIST, ROBERT E.—B.A., M.A.------------------Physics
Received B.A., University of Oregon, in physics, in 1932; M.A., physics, Oregon State College, 1938; Additional graduate work, Purdue University and University of Washington.
Experience: Teaching assistant in physics, University of Oregon, and Oregon State College; Instructor at University of Oregon; Teaching fellow at Purdue University; Teaching fellow, University of Washington and supervised teaching in high school at Seattle; Inspection supervisor, Boeing Aircraft Company, 1941-1945.
At California State Polytechnic College since 1946.
Faculty

HOOVER, RALPH W._--------Animal Husbandry and Agricultural Mechanics
Experience: Instructor in horseshoeing and blacksmithing, U. S. Army; Horseshoer, Porterville, California.
At California State Polytechnic College since 1948.

HOOVER, ROBERT F.—B.A., M.A., Ph.D._—Botany and Biological Sciences
Received B.A., Stanford University, in botany in 1934; M.A. in Botany, University of California, 1935; and Ph.D., University of California, 1937.
Experience: Teaching assistant, University of California; Instructor, Yakima Valley Junior College; Taught botany, zoology, and physiology. Officer Army Medical Corps, 1942-1946.
At California State Polytechnic College since 1946.

HOUK, A. L._—B.S., M.S., Ph.D._—---Chemistry
Received B.S., Michigan State College, 1926; M.S., Michigan State College, 1928; Ph.D., Pennsylvania State College, 1933.
At California State Polytechnic College since 1946.

* HULSE, HENRY—B.S._---Crops, and In Charge of Resident Students
Received B.S., California State Polytechnic College, 1943.
Experience: Director of Vocational Agriculture, Brawley Union High School, 1946-1947; served three years in the U. S. Marine Corps as an officer.
At California State Polytechnic College since 1947.

HOWE, AGNES—A.B., M.S._--------------English
Received A.B., Albion College, 1923; M.S., Northwestern University, 1933; Completed additional graduate work toward doctorate at Northwestern University and Stanford University.
Experience: University of Iowa; University of Wisconsin; Albion College; Northwestern, summer sessions; Michigan State College; McKendree College; Eastern Washington College of Education; and Cedar Crest College; Part-time library work at Hoover War Library, Stanford University; Speech, English, and dramatics instructor, Castilleja Schools; Los Gatos Union High School.
At California State Polytechnic College since 1947.

HOWES, WILBUR B.—B.A._---Head of Ornamental Horticulture Department
Non-degree work at University of California, Davis; Received B.A., Chico State College, 1930; Additional graduate study, University of Southern California and Cornell University.
Experience: Instructor in Agriculture, Los Angeles School System.
At California State Polytechnic College since 1932.

HOYT, LYLE SAFLEY—B.S._----------------Animal Husbandry
Received B.S., Iowa State College, 1941; Additional graduate study, South Dakota State College.
Experience: County Club Agent and County Agricultural Agent in Iowa, 1942; Instructor Animal Husbandry Department, South Dakota State College; Served in U. S. Army as an officer, 1942-1945.
At California State Polytechnic College since 1946.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
JOHNSTON, ROBERT M.—A.B.-------------------------Engineering Drafting
Received A.B. in Industrial Arts, Santa Barbara State College, 1937; Graduate of the Boeing School of Aeronautics in meteorology, 1938.
Experience: Taught meteorology and weather forecasting, preparation of weather maps, Randolph Officer Training School; Airline Meteorologist for Pan-American Airlines, 1941-1946.
At California State Polytechnic College since 1946.

JORGENSEN, EDWARD J.—B.A.-------------------Physical Education and Athletics
B.A., Chico State College, 1936; graduate work, San Jose State College and University of California.
Experience: Instructor of physical education and industrial arts, South Fork High School, Ferndale High School, and Watsonville High School; athletic director, Marin Junior College; officer in U. S. Navy.
At California State Polytechnic College since 1947.

KENNEDY, ROBERT E.—A.B.-------------------------Journalism and Publications
Received A.B., San Diego State College, 1938.
Experience: Staff Fine Arts Gallery, Balboa Park, San Diego; Editorial Department of San Diego Sun, Scripps-Howard paper; Director Publicity, San Diego State College, 1937-1938; Advertising Manager, Hamiltons, Ltd., San Diego; Instructor, English U. S. Naval Flight Preparatory School and Naval Academic Refresher Unit.
At California State Polytechnic College since 1940.

KENNELLY, BRUCE—B.S., M.A., Ph.D.------------------------Chemistry
Received B.S., University of Kentucky, 1944; M.S., Purdue University, 1946; Ph.D., Purdue University, 1947.
Experience: Full-time staff member, Department of Agricultural Chemistry, Purdue University, 1944-1947.
At California State Polytechnic College since 1947.

KNOKEY, CHARLES R.—B.S.----------------------Air Conditioning and Refrigeration
Received B.S. in air conditioning and refrigeration engineering, California State Polytechnic College, 1947.
Experience: Completed aviation cadet training in 1941, and commissioned ensign in U. S. Naval Reserve; Served as officer in the U. S. Navy from 1941-1945.
At California State Polytechnic College since 1947.

* LAMIMAN, JOHN F.—B.S., M.S., Ph.D.-----------------Agricultural Inspection and Entomology
Received B.S. in entomology, University of California, 1922; M.S. in entomology, University of California, 1924; Ph.D. in entomology, University of California, 1931.
Experience: Research Assistant, University of California, Entomologist in Experiment Station; Instructor at University of California.
At California State Polytechnic College since 1948.

LANDER, J. ROLLIN—B.S.-----------------------------Animal Husbandry
Received B.S., Iowa State College in animal husbandry, 1941, after having attended California Polytechnic.
Experience: Employed by Tudor Orchards, Yuba City; Frank Cornell Ranch, Salinas; Teacher of Veterans—Agricultural courses, Gonzales Union High School.
At California State Polytechnic College since 1946.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
LEACH, RICHARD—B.S.---------Head of Poultry Husbandry Department
Received B.S., Montana State College, 1931.
Experience: Supervisor, feed sales agency for Sweet & Company, Bozeman, Montana; Manager and owner of commercial poultry plant, Bozeman, Montana.
At California State Polytechnic College since 1930.

LEARY, WILLIAM GORDON—A.B., M.A.--------------------------English
Received A.B., 1936, and M.A., 1938, University of California at Los Angeles; additional graduate work at the University of Washington and the University of Chicago.
Experience: Teaching assistant, University of California at Los Angeles, 1936-37; Instructor of English, Kern County Union High School, Bakersfield, 1938-41; Instructor, University of Washington, 1941-42; U. S. Navy, 1942-45.
At California State Polytechnic College since 1947.

LEWIS, V. D.—A.B., M.A.--------------------------Mathematics and Physics
Received A.B., 1933, and M.A., 1940, University of California. Additional graduate work University of California and University of Miami.
Experience: Served in U. S. Navy as an officer, 1943-1946. Science and mathematics instructor, Round Valley Union High School, 1934-1936; Principal, Round Valley Union High School, 1936-41; Principal Fort Bragg Senior High School, 1941-43.
At California State Polytechnic College since 1946.

LINDLEY, DEAN C.—B.S., M.S., D.V.M.-----------College Veterinarian and Veterinary Science
Received B.S., Washington State College in agriculture, 1944; M.S., Washington State College in agriculture, 1945; D.V.M. from Washington State College in 1946.
At California State Polytechnic College since 1946.

*LINT, HAROLD L.—B.A., M.A.----------------------Biological Sciences
B.A., University of California at Los Angeles, 1940; M.A., University of California at Los Angeles, 1942.
Experience: Five years as inspector for U. S. Food and Drug Administration.
At California State Polytechnic College since 1947.

LONBORG, REYNOLD H.—B.S.-----------------------------Truck Crops
Received B.S., in agriculture, University of California, 1932.
Experience: Instructor of Vocational Agriculture, Downey Union High School, Downey, California, 1934-1936; Director of Department of Vocational Agriculture at Santa Maria Union High School, Santa Maria, California, 1936-1946. Two years experience in vegetable production in the Santa Maria Valley.
At California State Polytechnic College since 1946.

LUCKSINGER, O. F.—B.S., M.S.----------------Public Speaking and Agricultural Mathematics
Received B.S., University of California, 1916; M.S., University of California, 1927; additional graduate study, University of California.
Experience: U. S. Army, Medical Corps, World War I; Agricultural inspector, Lemoore Union High School; Director of Agriculture, Gonzales Union High School; Principal, Gonzales Evening High School.
At California State Polytechnic College since 1934.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
McDONALD, JAMES MORRELL—B.S. Air Conditioning and Refrigeration

Received B.S. from California State Polytechnic College in 1943.

Experience: Served in United States Navy as an officer from 1943 to 1946.

At California State Polytechnic College since 1946.

McGRATH, JAMES—B.A.指导 and Air Conditioning and Refrigeration

Attended California Polytechnic 1935-1938; received B.A., Santa Barbara State College, 1941; additional graduate work at Claremont College.

Experience: Steam Engineer, license unlimited 1935 to date; Lieutenant Commander, Engineering Officer; First Assistant Engineer, U. S. Army Transport S. S. Yu Sang; U. S. Army on Bataan. Extensive travel in Pacific area—Japan, China, Malay, Manchuria, Korea, Philippines, and Borneo.

At California State Polytechnic College since 1946.

MACKEY, JOHN WILLIAM—A.B., M.A. English

Received A.B., College of Wooster, Wooster, Ohio, 1940; M.A., Stanford University, 1943.

Experience: Huntley Project High School, Warden, Montana, 1940-41; Stanford University, 1943-45; California State Polytechnic College, 1945; University of Montana, 1945-46.

At California State Polytechnic College since 1947.

MARSTON, ENA LESLIE—B.A., M.A. English

Received B.A., Mills College, 1927; M.A., Mills College, 1928; M.A., Radcliffe College, 1931; additional graduate work at the universities of California, Washington, and Chicago.

Experience: High school teaching at Abbot Academy, Andover, Massachusetts; Concord Academy, Concord, Massachusetts. College teaching at St. Helen’s Hall Junior College, Portland, Oregon; Washington State College. Administration as Registrar at St. Helen’s Hall Junior College; Academic Dean of Linden Hall Junior College, Lititz, Pennsylvania. In the U. S. Service in the Marine Corps.

At California State Polytechnic College since 1946.

MARTINSEN, M. C. Aeronautical Engineering

Graduate California Polytechnic, 1917, in Mechanics Engineering; additional study, University of California at Los Angeles; holds certificates issued by Civil Aeronautics Authority as Aircraft Pilot; Aircraft and Engine Mechanic; Ground and Mechanics School Instructor.

Experience: Travel South America, France; U. S. Army Engineer, World War I; electrician, Reynolds Electric Company, Santa Barbara, California; steam engineer, Union Oil Company, Avila, California; machinist, C. F. Brann Company, San Francisco, California; shop foreman, Santa Barbara Motor Company; owner and operator, Automotive Repair Business, Santa Barbara, California; mechanic, Lockheed Aircraft Corporation, Burbank, California; instructor, Navigation, U. S. Naval Flight Preparatory School.

At California State Polytechnic College since 1930.

MEEEKER, DAVID PAUL—A.E. Aeronautical Engineering

Received degree of Aeronautical Engineer from the University of Cincinnati, 1938. Completed work at the Pittsburg School of Aviation for pilot’s license; Haller-Hirth sail plane school for glider pilot license.


At California State Polytechnic College since 1947.
MERSON, JAMES F.—B.A.——-Head, Agricultural Engineering and Mechanics Department

Graduate San Jose State College, 1928; received B.A., San Jose State College, 1932; graduate work University of California at Davis.

Experience: Western Electric Company, Oakland; Instructor Agricultural Mechanics, Dos Palos High School; Instructor Agricultural Mechanics, Santa Rosa High School.

At California Polytechnic College since 1936.

METZ, ROY F.----------------Aeronautical Engineering

Cass Technical School of Engineering, 1914; additional study various aircraft and engine companies including the Wright Aeronautical Corporation, Pratt and Whitney Corporation, United Air Lines; holds Civil Aeronautics Authority Aircraft and Engine certificate; Instructor, aero engines in the U. S. Naval Flight Preparatory School.

At California State Polytechnic College since 1937.

MILHAM, FOREST KNE—B.S.----------------Chemistry

Received B.S., University of Nebraska, 1937.


At California State Polytechnic College since 1947.

MOTT, ROBERT A.—B.S., M.A.——-Acting Department Head, Physical Education and Athletics

Received B.S., University of Akron, 1939; additional graduate work, University of Michigan and University of Akron; M.A., University of Southern California.

Experience: Physical education instructor and athletic coach at B. F. Goodrich School, Akron; Coach at Akron West High School; served in the U. S. Navy as athletic officer, 1942-1946.

At California State Polytechnic College since 1946.

NERESON, ÖBERLIN B.—B.A., M.A.---------------Director of Guidance

Received B.A., Luther College, 1927; graduate work at Northwestern University, 1930; M.A., University of Minnesota, 1939; additional graduate work at University of Southern California.

Experience: Teacher and principal at Barnesville High School, Barnesville, Minnesota, 1927-1930; Principal of High School, Pelican Rapids, Minnesota, 1930-1933; Superintendent of Schools, Barrett, Minnesota, 1938-1939; Principal of High School, Alexandria, Minnesota, 1939-1943; Instructor in psychology, Visalia College, Visalia, California, 1946-1947; Personnel officer at U. S. Navy Receiving Station, Terminal Island, Naval Air Base, Tinian, and U. S. Naval Air Base, Guam, 1943-1946.

At California State Polytechnic College since 1947.

NOBLE, GLENN A.—A.B., M.A., Ph.D.——-Acting Head of Biological Sciences Department

Received A.B., University of California, 1931; M.A., University of California, 1933; Ph. D., Stanford University, 1940.


At California State Polytechnic College since 1947.
O'DANIELS, HOWARD R.—B.C.S.—Physical Education and Athletics
Received Bachelor of Commercial Science, University of Santa Clara, 1931; additional graduate study, University of Southern California.
Experience: Director of physical education, Mission High School, San Luis Obispo, California; at California Polytechnic School as coach, 1933-1942; Served in U. S. Navy as an officer, 1942-1945.
Returned to California State Polytechnic College in 1945.

PARKER, HARRY—Animal Husbandry
At California State Polytechnic College since 1932.

PARSONS, M. RAY—Agricultural Engineering
Received B.S. in agriculture, North Dakota Agricultural College, 1942, and B.S. in Agricultural Engineering at North Dakota Agricultural College, 1946.
Experience: Farmed in North Dakota two years; Instructor in the Department of Correspondence Study at the North Dakota Agricultural College, courses in mathematics and mechanics; L. B. Hanna Stock Farm in North Dakota for two years; employed by highway and airport construction companies; served in the U. S. Army, 1942-1945; part-time extension in Agricultural Engineering, North Dakota Agricultural College.
At California State Polytechnic College since 1946.

PAVELKO, CHARLES A.—Physical Education and Athletics
Attended Santa Clara University, 1935-1938; received B.A. in Physical Education from Whittier College in 1941.
Experience: California State Polytechnic College for one year, 1941-1942; served in the U. S. Navy as athletic officer, 1942-1945.
Returned to California State Polytechnic College in 1946.

*PEAVEY, GEORGE J.—A.B., A.M.—English
Received A.B., University of Denver, 1924; A.M., University of Hawaii, 1931; additional work at University of Southern California and Stanford University.
Experience: Instructor of English and Speech at Crested Butte High School, (Colorado); Hawaii Public Schools, University of Hawaii, and Stanford University; Head of Department of English at Poston School, Poston, Arizona; at California State Polytechnic School as English instructor in Naval Academic Refresher Unit, 1945.
Returned to California State Polytechnic College in 1946.

PENDLETON, PAUL E.—A.M., Ph.D.—Acting Chairman of English Department
Received A.M., University of Nebraska, 1922; Ph. D., Ohio State University in English, 1941.
Experience: Teacher, Lincoln Senior High School, Lincoln, Nebraska; Instructor, University of Nebraska, Lincoln, Nebraska; Assistant Professor Westminster College, New Wilmington, Pennsylvania; Otterbein College, Westerville, Ohio; Lecturer at the University of Southern California, Los Angeles; officer in the U. S. Army Air Forces, 1943-1946.
At California State Polytechnic College since 1946.
*PENLEY, LAVINA------------------------------------------Librarian

Experience: Assistant librarian, Pomona Public Library; acting librarian, Upland Public Library; assistant librarian, Pomona High School; librarian, Emerson Junior High School, Pomona.

At California State Polytechnic College since 1946.

PETELEON, GERARL B.------------------Electronic and Radio Engineering

Experience: Eight years as independent radio service man; radio operator, WHA radio station, University of Wisconsin; officer, instructor in radio and sound, in U. S. Navy.

At California State Polytechnic College since 1947.

PORTER, MARIE E.—A.B.-----------------------------Mathematics

Received A.B. in mathematics and chemistry, Stanford University, 1935; graduate work in mathematics and sciences at Stanford University.

Experience: High school teaching, including experience in Alameda High School; Grant Union High School and Junior College, North Sacramento; U. S. Naval Flight Preparatory School, California Polytechnic; Naval Academic Refresher Unit, California State Polytechnic School.

At California State Polytechnic College since 1946.

PRIESTLEY, RALPH B.—B.S.-----------------------Architectural Engineering

B.S., University of Illinois, 1936.


At California State Polytechnic College since 1948.

PURSEL, CLAUDE A.—A.B., M.A.----------------Mathematics

Received A.B., Hastings College, Hastings, Nebraska, 1935; M.A., University of Southern California, 1947.


At California State Polytechnic College since 1947.

RADIUS, CLARENCE—B.S.-------------------Head of Electronic and Radio Engineering Department

Received B.S., University of Chicago, 1932; Graduate work in electron physics, University of Chicago; Graduate work in communications engineering at Stevens Institute of Technology, New Jersey.

Experience: Instructor in physics at the Chicago Junior College; Engineer at Chicago Apparatus Company; Instructor in radio frequency engineering at RCA Institutes, Chicago; Head of the department of audio- video technology at RCA Institutes, New York; Engineer at Radiomarine Corporation of America, New York; Lecturer in television for National Broadcasting Company in New York, Chicago, and Hollywood.

At California State Polytechnic College since 1946.

RAEAGAN, EVELYN D.—B.S.------------------------Cataloger

Received B.S., College of St. Catherine, St. Paul, Minnesota, 1943.

Experience: Reference Librarian at College of Holy Cross, Worcester, Massachusetts; Librarian at Charity Hospital School of Nursing, New Orleans, Louisiana.

At California State Polytechnic College since 1946.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
REECE, ROBERT HOWELL—B.S.------------------Mechanical Engineering

Received B.S. in mechanical engineering, University of Illinois, 1920.

Experience: Employed as steel plate work estimator with Joseph T. Ryerson & Son, Chicago; employed by Illinois Engineering Company in connection with mechanical equipment of power plants, railroad round houses; City of Chicago in connection with water filter plant; and with Skidmore, Owings and Merrill, Architects and Engineers in Chicago and New York; served in the U. S. Navy as an officer, 1942-1945; and with Wurdeman and Becket Architects and Engineers, as mechanical engineer, Los Angeles, California.

At California State Polytechnic College since 1946.

REMUND, CLIVE—B.S.------------------Agricultural Engineering

Received B.S. in agriculture at Utah Agricultural College, 1931.

Experience: Seven years teaching experience Utah high schools; Director of Vocational Agriculture and Critic Teacher at Elk Grove Union High School, California; Director of Vocational Agriculture and Cadet Teacher, Paso Robles Union High School.

At California State Polytechnic College since 1946.

RICHARDS, C. C.—B.A.----------------------Machine Shop

Received B.A., Santa Barbara State College, 1942.

Experience: Extensive experience in industrial plant construction work and machinery installation with O. C. Fields Gasoline Corporation; Served in U. S. Navy, 1942-1945.

At California State Polytechnic College since 1946.

RICKANSKUD, TORLEIF M.—B.A., M.S.-------------------Physics and Mathematics

Received B.A., Luther College, Decorah, Iowa, 1922; M.S., Iowa State College, 1940; additional graduate work, University of St. Louis, 1942-1943.

Experience: Superintendent of Schools and Director of Science Department at Rolla Public Schools, Rolla, N. Dakota; Superintendent of Schools and Director of Science Department Omemee Public Schools, Omemee, N. Dakota; Superintendent of Schools and Director of Science Department at Lansing Public Schools, Lansing, Iowa; Electronics Instructor in Advanced Radar School, Truax Field, Madison, Wisconsin, 1943; Instructor, mathematics and physics in U. S. Naval Flight Preparatory School and the Naval Academic Refresher Unit. Holds Civil Service rating as radio engineer.

At California State Polytechnic College since 1943.

RIEBEL, JOHN P.—B.S., B.A., M.A.------------------English

B.S., University of Kentucky, 1924; B.A., University of Southern California, 1927; M.A., University of Southern California, 1928; additional graduate work, University of Illinois.

Experience: Instructor in English, Georgia School of Technology; assistant in English, University of Illinois; acting head of English department, Austin Peay Normal, Clarksville, Tennessee; editor and author, L. W. Singer Co., Syracuse, New York; nine years as instructor in charge of composition, General Motors Institute; instructor, University of Detroit Evening College of Commerce; editor and assistant manager of customer relations, Cadillac Motor Car Division, Detroit.

At California State Polytechnic College since 1947.
ROY, GEORGE M.—B.E., M.S.——Electrical Engineering and Mathematics
B.E., Tulane University, 1944; M.S., Stanford University, 1947.
Experience: Officer in U. S. Navy.
At California State Polytechnic College since 1947.

SANKOFF, LEO—B.S.——Poultry and Agricultural Engineering
Received B.S., California Polytechnic, 1942.
Experience: Director of Agriculture, Fillmore High School.
At California State Polytechnic College since 1946.

SHARPE, NORMAN—B.A., M.A.——Head of Air Conditioning and Refrigeration Engineering Department
Received B.A., University of California at Los Angeles, 1929; M.A., University of Southern California, 1939.
Experience: Research Engineer, Carrier Engineering Corporation, Newark, New Jersey, 1930; Design Engineer, Carrier Engineering Corporation; physics and mathematics Instructor, Los Angeles City Schools; Design and Construction Engineer, Luppen and Hawley.
At California State Polytechnic College since 1937.

SHEPHERD, LOUIS P.—B.S., A.M.——English
Received B.S., Kansas State Teachers College, 1941; A.M., Columbia University, 1945; Additional graduate work toward Ph.D. completed at Stanford University.
Experience: Instructor in English, speech, dramatics, Spanish, at Norwich, Kansas, High School; Grace Church School, and McBurney Preparatory School, New York City, 1941-1945; Instructor in English, Oregon State College, 1945-1946; Instructor in English, Stanford University, 1946-1947.
At California State Polytechnic College since 1947.

SHESSLER, FRANKLIN B.—B.A., M.S.——Air Conditioning and Refrigeration
Experience: Officer in U. S. Navy; instructor in machine shop, Santa Barbara College.
At California State Polytechnic College since 1947.

SMITH, JAMES STEELE—B.A., M.A.——English
Received B.A. in English, University of California, 1934; and M.A. in English, University of California, 1936; Additional graduate work at the University of California.
Experience: Instructor, University High School, Berkeley and Red Bluff Union High Schools; Teaching fellow, University of California; Instructor, University of California, Davis; U. S. Army; Instructor, Washington State College; Professional writing.
At California State Polytechnic College since 1946.
SMITH, MORRIS EUGENE—A.B., M.A.—Political Science and History

Received A.B. in political science and history, University of California, 1934; M.A. in political science and English, 1937; Additional graduate work at the University of California.

Experience: Five years Piedmont High School English instructor and tennis coach; Served in U. S. Army as Intelligence Officer, 1942-1946.
At California State Polytechnic College since 1946.


Received A.B., East Central State College, Oklahoma, 1923; M.S., University of Oklahoma, 1930, majoring in school administration; Ed.D. in school administration and economics, University of Oklahoma, 1940.

Experience: Fifteen years secondary school administration; Graduate assistant, College of Education, University of Oklahoma; a member of the Department of Economics, North Texas State College, Denton, Texas, for four years; Regional Consumer Representative, O.P.A.
At California State Polytechnic College since 1946.

ST. CLAIRE, JAMES—B.S., M.S.—Economics and Agricultural Economics

Received B.S., University of California, 1939; M.S., University of Illinois, 1947.

At California State Polytechnic College since 1946.

STEINER, ERNEST ALFRED—Security Officer and Instructor in Fire and Accident Prevention

Experience: Fire Engineer, Long Beach Fire Department, 1923-1943; Fire protection, fire prevention, and general security officer, U. S. Navy, 1943-1946.
At California State Polytechnic College since 1947.

STEUCK, FRED HENRY—B.S.—Electrical Engineering

Received B.S. in electrical engineering, Iowa State College, 1937.

Experience: Assistant engineer, Nebraska Power Company, Omaha, 1937-1938; Manager, O'Brien Company Rural Electrification Corporation, 1938-1942; Radar officer, U. S. Naval Reserve, 1944-1946; Electrical Instructor, U. S. Naval Training School, Iowa State College, 1942-1944; Engineer, Silent Sioux Burner Corporation, Orange City, Iowa, 1946.
At California State Polytechnic College since 1947.

STEVENSON, FRANK V.—B.A., M.S.—Plant Pathology and Biological Sciences

Received B.A., University of Maryland, 1939; M.S., University of Minnesota in botany, 1944; Additional graduate work toward Ph. D.

Experience: Graduate assistant, University of Maryland, 1940-1941; Research assistant, Michigan State College, 1941-1943; Instructor and research assistant, University of Minnesota, 1943-1946; Agricultural experiment station, Washington State College, 1946-1947.
At California State Polytechnic College since 1947.

*STULL, ROBERT B.—A.B., M.A. —Physical Education and Athletics

Received A.B., Whittier College, 1941; M.A., Whittier College, 1947.

Experience: Coached basketball, Whittier College; graduate manager, Whittier College; instructor, physical education and political science, Montebello High School, Montebello, California, and at Valencia High School, Placentia, California; served as officer in U. S. Navy for four years.
At California State Polytechnic College since 1947.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
THOMSON, DAVID H.—B.S.------------------------Biological Sciences
Received B.S., University of Arizona in education and zoology; additional work in biology, Claremont College.
Experience: Laboratory instructor, Pomona College.
At California State Polytechnic College since 1946.

TURNER, ALDEN L.------------------------Aeronautical Engineering
Graduate of California State Polytechnic College, 1936.
Experience: United Air Service, Ltd.; Stearman Aircraft; Lockheed Aircraft; Hancock College of Aeronautics at Santa Maria; served as an officer U. S. Air Forces, 1941-46.
At California State Polytechnic College since 1946.

VORHIES, RALPH M.—B.S., A.M.-----------------------------Crops
Received B.S. in agriculture, University of Missouri, 1938; A.M. in horticulture, University of Missouri, 1941.
Experience: High School teacher of vocational agriculture at Belton, Missouri; Instructor Southeast State Teachers College; Instructor Cape Girardeau, Missouri; served in U. S. Navy as an officer from 1942-1946.
At California State Polytechnic College since 1946.

WADE, KENNETH E.—B.S.-----------------------------------Soils
B.S., University of Idaho, 1937; graduate work, Washington State College.
Experience: Nine years as agronomist and soil conservationist, Soil Conservation Service, U. S. Department of Agriculture.
At California State Polytechnic College since 1947.

WALLACE, ROBERT—B.S.------------------------Agricultural Engineering
Received B.S., University of California College of Agriculture, 1939.
Experience: Building superintendent for the Federal Government in laying out buildings and supervising their construction, 1939-1942; completed requirements for credential in vocational agriculture in 1942; instructor of vocational agriculture, Orland Joint Union High School, 1942-47.
At California State Polytechnic College since 1947.

WATSON, KENNETH JOSEPH—A.B.-------------------Electronic and Radio Engineering
Received A.A. in radio engineering, San Jose Junior College, 1939; A.B. in industrial education, San Jose State College, 1941; completed additional graduate work at San Jose State College, 1946.
Experience: Radar operator, mechanic, and radar officer, U. S. Army, 1941-46.
At California State Polytechnic College since 1947.

*WEEKS, LOWELL K.—B.A.-------------------Music and English
B.A., University of New Mexico, 1938; graduate work, University of New Mexico and University of Southern California.
Experience: Instructor in Music and English, Los Lunas High School, Los Lunas, New Mexico; U. S. Army.
At California State Polytechnic College since 1947.

*WELCH, HARRY—B.S.------------------------Citrus and Soils
Received B.S., University of California at Los Angeles, 1941; additional study, University of Hawaii.
Experience: University of California Citrus Experiment Station, Riverside; Farm Security Administration.
At California State Polytechnic College since 1947.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
WHITMAN, AINSLEY A.—A.B., B.S.-------------------Head Librarian

Received A.B. in social sciences, San Jose State College, 1935; B.S. in library science, Louisiana State University, 1936.

Experience: Louisiana State Department of Education, Librarian; County Librarian, Poinsett Co. Library, Harrisburg, Arkansas; Assistant Librarian, San Jose State College.

At California State Polytechnic College since 1946.

WHITING, F. F.—B.S., M.A.---------------------Machine Shop

Received B.S. in industrial education, Stout Institute, Menomonie, Wisconsin, 1931; M.A., University of Minnesota, 1938.

Experience: Teacher, metalwork, Eau Claire, Wisconsin; Junior High School and Marshall Senior High School, Minneapolis, Minnesota. Summer session instructor in metal work, University of Ohio; University of Minnesota, 1942-44. Served in the U. S. Navy as an officer, 1944-46.

At California State Polytechnic College since 1946.

WHITSON, MILO E.—Ph.B., M.A.---------------Head of Mathematics Department

Ph.B., Washburn College, Topeka, Kansas; M.A., George Peabody College for Teachers; graduate work, University of Southern California.

Experience: Seven years in elementary schools in Kansas; seven years in junior high schools, including teaching in mathematics, literature, and physical education, and Principal, Topeka Junior High School; officer in U. S. Navy; instructor in mathematics at University of Southern California.

At California State Polytechnic College since 1947.

*WITTENBERG, DAVE W.—B.S.-------------------Agricultural Economics

Received B.S., University of California, 1942; additional graduate study at University of California.

Experience: Director of Vocational Agriculture, Templeton Union High School, and Antelope Valley Union High School, Lancaster.

At California State Polytechnic College since 1947.

WILEY, RICHARD C.-----------------------------Welding

Special engineering courses at Stanford University; Industrial Arts training, San Jose State College and University of California.

Experience: Seven years master mechanic and welder, Utah Construction Company; trade experience with Eaton and Smith, contracting engineers; utilities department of the city of Palo Alto; two and one-half years War Production training instructor in welding, Sacramento Junior College, Palo Alto, and San Francisco school systems; instructor in welding, Leland Vocational Evening High School; senior welding engineer, Joshua Hendy Iron Works, Sunnyvale, California.

At California State Polytechnic College since 1946.

WOLF, HARRY K.—B.S., M.A.-------------------Electronic and Radio Engineering

California Polytechnic, 1927-29; received B.A., Arizona State Teachers College, Flagstaff, 1933; M.A., University of Arizona, 1941; additional graduate study at the University of California and University of Arizona.

Experience: Supervisor for Agricultural Adjustment Administration; instructor of mathematics and science, Camp Verde High School, Camp Verde, Arizona; head of mathematics department, El Dorado County High School, Placerville, California; U. S. Army Signal Corps training program instructor; instructor, navigation in the U. S. Naval Flight Preparatory School and mathematics and physics in the Naval Academic Refresher Unit.

At California State Polytechnic College since 1942.

* Located at the Voorhis Unit of California State Polytechnic College at San Dimas, California.
WRIGHT, DOROTHY S.—A.B.----------------------Reference Librarian

Received A.B. in philosophy and English, Occidental College; graduate work at University of California; received certificate from University of California School of Librarianship.

Experience: Pasadena Public School Library; Long Beach School Libraries; Occidental College Library.

At California State Polytechnic College since 1946.

ZILKA, THOMAS J.—B.S., M.S.-------------------Acting Head, Mechanical Engineering Department

B.S., Oregon State College, 1941; M.S., Oregon State College, 1943.

Experience: Instructor in mechanical and aeronautical engineering, Oregon State College; assistant airworthiness requirements engineer, Boeing Aircraft Co.; assistant professor in aeronautical engineering, Montana State College.

At California State Polytechnic College since 1947.
THE STATE BUREAU OF AGRICULTURAL EDUCATION

The State Bureau of Agricultural Education is a division of the State Department of Education, with headquarters at California State Polytechnic College. The bureau is in charge of all vocational agriculture instruction in the State. Because the principal bureau offices are located on the campus, and because the college and its staff participate actively in In-Service training for vocational agriculture teachers, California State Polytechnic College is considered the "headquarters" for vocational agriculture in California.

Members of the bureau staff are well-informed on activities of the college, and are always willing to discuss the college with prospective students. The State Bureau of Agricultural Education staff directory is listed below:

DIRECTORY STATE BUREAU OF AGRICULTURAL EDUCATION

Headquarters at California State Polytechnic College

B. J. McMAHON, Chief of Bureau—California Polytechnic, San Luis Obispo
GEORGE P. COUPER, Assistant to the Chief—California Polytechnic, San Luis Obispo
H. H. BURLINGHAM, Teacher-Trainer—California Polytechnic, San Luis Obispo
H. F. CHAPPELL, Regional Supervisor—Library and Courts Building, Sacramento
B. R. DENBIGH, Regional Supervisor—402-A California State Building, Los Angeles
E. W. EVERETT, Supervisor Veterans Training—Natural Science Building, San Jose State College, San Jose
J. CORDNER GIBSON, Regional Supervisor—402-A California State Building, Los Angeles
J. D. LAWSON, Special Supervisor—California Polytechnic, San Luis Obispo
M. K. LUTHER, Regional Supervisor—San Jose State College, San Jose
A. G. RINN, Regional Supervisor—Fresno State College, Fresno
S. S. SUTHERLAND, Teacher-Trainer—University of California, Davis
J. I. THOMPSON, Livestock Specialist—California Polytechnic, San Luis Obispo
J. EVERETT WALKER, Regional Supervisor—208 Sowilenn Building, Chico
VOCATIONAL AGRICULTURE TEACHER DIRECTORY

Vocational agriculture teachers in California high schools and junior colleges visit the campus frequently for summer In-Service teacher training programs, Future Farmers of America state conventions, Future Farmer judging contests, and other purposes. Regional supervisors and special supervisors of the bureau contact the vocational agriculture departments frequently in the administration of the vocational agriculture program, and members of the agriculture faculty of the college often are requested to meet with vocational teachers on special production problems. These factors keep the vocational agriculture group in close contact with the college. Usually prospective students interested in curricula offered at the college are able to secure up-to-date information from the vocational agriculture teachers listed below.

**North Coast**

Arcata U. ------------------
---L. H. Parsons, Paul Fleming *
Boonville, Anderson Valley U.---
------------------------ Russell Miller
Calistoga Jt. U.--------Roy Lanini
Eureka Senior--------Waldo A. Riches
Ferndale U. -----------------
---A. W. Heinzé, Paul R. Paulich
Fortuna U. -----------------
---Earl Ambrosini, Russell Berg
Healdsburg --------Steve Searcy
Lakeport, Clear Lake U.------
-----------Jared H. Hendricks
Laytonville, Branch Willits U.---
-----------------Gunder Rinset
Miranda, South Fork U.-------
--------------------------Nelson B. Lewis
Napa U. ------------------
---Ralph E. Early, E. C. Conners
Petaluma Senior --------------
---W. L. Norton, Barton
B. Reardon, Chester Jacobsen
St. Helena-------J. Duncan Fisher
Santa Rosa-----------------
------Wesley Jamison, J. Sidney Johnson, Lyle F. Keller,*
James C. King, C. L. Eggleston
Sebastopol, Analy U.---------
---Glenn Ament, Henry E. Davis
Sonoma, Sonoma Valley U.------
-------------------Earl Livingston
Tomales Jt. U.------I. F. Nuckols
Upper Lake U.---------Calvin S. A Erick
Willits U. Jr. Sr.--------
---------------------Herbert Fincher

**South Coast**

Campbell U. ------------------
---Albert B. Smith, Donald Meiss
Centerville, Washington U.------
------------------Jed S. Oxborrow

Gilroy -----------------Loren
McNicholl, Daniel H. Linstedt
Gonzales U.--------Frank Tibbetts
Half Moon Bay--------Robert Dietrick
Hayward U.--------O. C. Markwell,
Leslie Brown, Frank H. Miller,
Karl Robinson, Robert Paquette *
Hollister, San Benito County---
---Harold Stoker, Robert Barton
King City U.-------Cecil A. Thompson
Livermore U.--------Weldon Craig
Los Gatos U.--------Bernard J. Cline
Morgan Hill, Live Oak U..Ralph
Fitzsimmons, W. G. Yearian
Pleasanton, Amador Valley-----
--------------Alfred G. Thorson
Salinas J. C.--------Lyman
C. Fowler, Carl R. Pinkerton
Salinas U.-------Lyman C. Fowler,
Legro Pressley, Ross Webster *
San Jose, Abraham Lincoln-----
-----------------------------M. C. Ralston
San Jose High--------Lionel
E. Cross, Clifford Transeth,
Selvin Anderson, Sam A Erick *
Santa Cruz-----------------Sam
J. Binsacca, Rupert Kreinbring
Sunnyvale, Fremont U.---------
-------------------------Edmund P. Jauch
Watsonville U.------------------
--------------------------M. T. Thorstenson,
Oscar Hollenberg, Forrest Rycraft
Atascadero U.--------E. W. Gills
Cambria, Coast U..Reidion Dunlap
Paso Robles U.--------Wm. J. Anglin
San Luis Obispo Sr.---------
---------------------------Arthur J. Godfrey
Santa Maria U.-----------------
Leslie Vanoncini, Herb Brownlee
Santa Ynez Valley U.-------G. L. Erwin
Templeton --------Clyde Cheyney

* Emergency Cadet.
Southern

Carpinteria. LeRoy B. Kappler
Covina U. Wilbur Otto
Fillmore U. George Madsen
Lancaster, Antelope Valley Jt. U.
--- Earl Martin,
John A. Wren, John P. Gary *
LaVerne, Bonita U. R. M. Springfield
Garfield Jr. Sr. (L. A.)
North Hollywood Sr. Paul grace
Pierce J. C. Bernhard Butcher,
Lindsay Boggess, A. E. Cleveland,
Leo Marks, Ben B. Ward
San Fernando Jr. Sr.
--- Paul Thornton
Van Nuys Jr. Sr.
--- Grant E. Nielson, Malcolm Sears
Mt. San Antonio J. C.
--- Loren Phillips, G. A. Sherman
Norwalk, Excelsior U.
--- Walter Baumgartner,
Carl Haase, Max E. Fisher
Ojai, Nordoff U. Jr. Sr.
--- David Davis
Pomona --- Leo Christian
Puente U. Edward F. Van Dam
Santa Paula --- Gordon B. Woods
Simi Valley (Simi) --- Donald Sande
Ventura U. and Jr. College.
--- Lloyd E.
Aspinwall, George E. McNeeley
Whittier U. Ray B. Moore
Anaheim U.
--- J. H. Wilmore, Wesley E. Mole
Blythe, Palo Verde Val. U.
--- William S. Zimmer *
Brawley
Chino High, Jr., Sr.
--- Ivan C. Mayfield, J. Young
Chino-Vocational --- Charles McFarland
Coachella --- H. Wineroth
El Centro, Central U.
--- Elwood Spencer,
Kenneth Holmes, Robert Procsal *
Elsinore --- Howard Dosch
Encinitas, San Dieguito U.
--- L. O. Walker
Escondido U. John W. Gray, Albert H. Kattenhorn
Fallbrook --- Paul Andrews
Fullerton --- Herbert A. Stitt
--- Ralph K. Enander *
Fullerton J. C. Herbert A. Stitt
--- Ralph Brown, James Dyer
Hemet U. Fred Hagen
Holtville U. --- S. G. Weller
Julian U. --- C. C. Gelwick
Newport Beach --- Elgin L. Hall
Ontario, Chaffey U.
--- Charles Perrin,
Rex Wignall, Arnold Christen,
William Bowers, E. H. Barton
Ontario, Chaffey J. C.
--- Rex Wignall, Arnold Christen
Orange --- Richard Barrett
Perris U. Richard W. Jeffery
Placentia, Valencia Jr., Sr.
--- Robert J. Cassidy
Redlands Sr. --- Charles
Reading, Galen H. Messamer
San Bernardino Sr.
--- Max Kipf, Howard Betts
Tustin U. --- Kenneth Cutler

Sacramento Valley

Alturas, Modoc U. --- West Williams
Anderson U. Wesley Norton
Arbuckle, Pierce Jr. U.
--- James L. Taylor
Auburn, Placer U.
--- R. D. Richardson, Fred
C. Rohrbacker, Jr., John Kantola
Biggs U. --- Lloyd G. Van Camp
Cedarville, Surprise Valley U.
--- Norman Nichols
Chico --- Ralph Filson
Colusa U.
--- Norman Johnson, Jack T. Nolan
Corning U. Robert Johnson
Durham U. J. Russell Kerr
Etna U. --- Chris Starr
Gridley U. --- W. L. Sweringen
Live Oak U.
--- W. G. Butterfield, John McGuire
Los Molinos, Branch Corning U.
--- J. W. Nielsen
Marysville High School ---
--- Ervin Turek,
Boyd Thompson, Ernest Wettstein
Yuba College --- George Vaught
Maxwell U. --- Lloyd Hart
McArthur, Fall River Jt. U.
--- F. K. Thomas
Orland Joint U. --- J. Floyd Heaton
Oroville U. --- Z. G. Hudgin
Princeton Joint U. --- Dwight Wait

* Emergency Cadet.
<table>
<thead>
<tr>
<th>Vocational Agriculture Teachers</th>
</tr>
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<tbody>
<tr>
<td>Red Bluff-------------------</td>
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<tr>
<td>Dell J. Rollins, George Tyler</td>
</tr>
<tr>
<td>Redding, Shasta U.----------</td>
</tr>
<tr>
<td>Neldon A. Taylor, H. N. Hillman, L. Merle Briggs*</td>
</tr>
<tr>
<td>Susanville, Lassen U.-------</td>
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<tr>
<td>Alvin D. Kinsey, Perry H. Hill</td>
</tr>
<tr>
<td>Tulelake, Br. Siskiyou Jt. U.</td>
</tr>
<tr>
<td>LaVern Hamstreet</td>
</tr>
<tr>
<td>Wheatland U.---Lowell Andrews*</td>
</tr>
<tr>
<td>Williams U.----E. Dave Graf, Jr.</td>
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<tr>
<td>Willows, Glenn County U.----</td>
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<tr>
<td>H. F. Tout</td>
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<tr>
<td>Yuba City U.--------------Leo D. Hollenberg, W. O. Kenney*</td>
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<th>Central</th>
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<tr>
<td>Brentwood, Liberty U.-------</td>
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<tr>
<td>C. G. Lawrence</td>
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<tr>
<td>Ceres U.----------Wayne Hansen</td>
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<tr>
<td>Dixon U.----------Glenn Caldwell</td>
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<tr>
<td>Dos Palos Jt. U.-----</td>
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<tr>
<td>Kenneth H. Easter, Lionel Tocher</td>
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<tr>
<td>Elk Grove U.--George Caldwell, Charles Fisher, Jack E. Herr*</td>
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<tr>
<td>Escalon U.----------Arthur Davis</td>
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<tr>
<td>Esparto U.-------------</td>
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<tr>
<td>C. Jorgensen, Raymond Wright*</td>
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<tr>
<td>Galt Jt. U.---------Silas T. Eggen</td>
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<tr>
<td>Gustine U.-------Conrad E. Lehfeldt</td>
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<tr>
<td>Hilmar U.---------Edwin Maxson</td>
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<tr>
<td>Hughson U.------Frank Patterson</td>
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<tr>
<td>Linden U.------Elwood M. Juergenson</td>
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<tr>
<td>Livingston, Branch Merced U.---</td>
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<tr>
<td>George Hall</td>
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<tr>
<td>Lodi U.-------Herman Diekman, Arthur Mellor, Hugh Bankhead</td>
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<tr>
<td>Los Banos, Westside U.------</td>
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<tr>
<td>John Cinek, L. P. Hillman</td>
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<tr>
<td>Manteca U.-------------</td>
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<tr>
<td>Emile LaSalle, L. P. Hillman</td>
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<tr>
<td>Merced U.----------------</td>
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<tr>
<td>Dale Andrews, Mark Lusk*</td>
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<tr>
<td>Modesto------Ernest Tarone, Everett N. Spafford, Harry M. Stanley, Roy Lippert, Walter Hanson</td>
</tr>
<tr>
<td>Modesto J. C.--------Ruben A. Sylva, Laverne Donker, Kenneth R. Frost</td>
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<tr>
<td>Newman, Orestimba U.-------</td>
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<tr>
<td>Francis Goetsch</td>
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<td>North Sacramento, Grant U.----</td>
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<td>Ralph Cowper</td>
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<th>San Joaquin Valley</th>
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<tbody>
<tr>
<td>Bakersfield, Kern County U.-----</td>
</tr>
<tr>
<td>Howard K. Dickson, J. L. Knight, H. L. Holmes, G. A. Hutchings, Charles Taggart, Harvey Brockmeyer, Milos Saiben, W. S. Ashbury</td>
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<tr>
<td>Bishop-------------Orville Nelson</td>
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<tr>
<td>Caruther U.--------E. O. Holquist</td>
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<tr>
<td>Chowchilla U.------Merl Tobler</td>
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<tr>
<td>Clovis U.---------Kenneth Olson</td>
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<tr>
<td>Corcoran---------Charles Cubbin</td>
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<tr>
<td>Delano Jt. U.-----------</td>
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<tr>
<td>C. A. Cazaly, Charles Solomon</td>
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<tr>
<td>Dinuba-------------Dan Cassard</td>
</tr>
<tr>
<td>East Bakersfield, Branch Kern County U.------Walter Shore</td>
</tr>
<tr>
<td>Fresno Central U.--------</td>
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<tr>
<td>Walter Atwood, E. W. Ragle</td>
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<tr>
<td>Fresno, Theo. Roosevelt Jr., Sr.</td>
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<tr>
<td>Fresno, Washington U.-------</td>
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<tr>
<td>J. P. Lemon</td>
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<tr>
<td>Fresno Unified---------</td>
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<tr>
<td>S. M. Poulsen</td>
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<tr>
<td>Hanford U.------Edward Grewold</td>
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<tr>
<td>Herman Harper, C. E. Holst</td>
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<tr>
<td>Kerman U.---------Arch R. Tyler</td>
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<tr>
<td>Kingsburg Jt. U.-------Truman Franke</td>
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<tr>
<td>Laton Joint U.----------</td>
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<tr>
<td>Leland R. Abel, Kenneth Bensel*</td>
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<tr>
<td>Lemoore U.----------------</td>
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<tr>
<td>A. M. Hardin, John C. Franklin</td>
</tr>
<tr>
<td>Lindsay Unified------F. Joe Robbins</td>
</tr>
<tr>
<td>Madera U.-------Warren T. Smith, Robert Selkirk, Harry Dickson*</td>
</tr>
<tr>
<td>McFarland, Branch Kern County U.----U. C. Allen, Mitchell Nidever</td>
</tr>
<tr>
<td>Orosi U.---------B. F. Tunnell</td>
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<tr>
<td>Parlier U.--------Douglas Champion</td>
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</tbody>
</table>

* Emergency Cadet.
Porterville U.-------------------
Ralph L. Hooper, Ray M. Hale, Weldon Longbothom *
Reedley Jt. U.-------Carl Englund, Kenneth Houtby, Harold Pence
Reedley Jt. U.-------Harmon Toone
Sanger U.--------------H. M. Ritter
Selma U.-------------W. James Maynard
Shafter, Branch Kern Co. U.------
---------------------------Glenn O. Nay,
------------------------Burley Dooley, Holger Hansen

Tranquillity U.--------W. E. Braun
Tulare U.--------------Robert
H. Pedersen, N. H. Walker,
Arthur Swenerton, Jesse Correll *
Visalia U.---------------
Bruce Jensen, Fred V. Knight,
S. R. Strader, Burnyl Sanden *
Wasco U.-------------P. D. Spilsbury
B. J. Edwards, Carwin Gubler
Woodlake U.-----------Robert Glim

* Emergency Cadet.
GENERAL INFORMATION

THE COLLEGE PLANT

Lands

The lands of the California State Polytechnic College total about 2,233 acres, of which 2,076 acres are embraced in the home unit at San Luis Obispo, and 157 acres in the Voorhis Unit at San Dimas.

Because the curricula of the California State Polytechnic College are primarily concerned with teaching production practices and skills, the availability of good farm land is a major factor. A different type of land is needed for each major agricultural field; pasture and range for beef cattle, dairy cattle, sheep and swine; range for poultry, hay and alfalfa land; and irrigable land for truck and field crops. Orchard land must be climatically situated as to frost and sunshine.

While additions must eventually be made to round out this land need as student enrollment increases, in order to give each student as much opportunity as possible for actual project operation, the present properties are in the main satisfactory and diversified. Good drainage throughout makes flood damage impossible in the heaviest rainfall. Both branches are located in thermal belts.

There are several hundred acres at San Luis Obispo suitable only for range purposes. Other land is devoted to hay, alfalfa, and orchard. The major campus with land immediately surrounding various buildings now requires about 100 acres.

At San Dimas, about 30 acres of the land utilized for citrus, avocados, and a small deciduous tract, are well adapted to these uses. Some additional acres may be utilized for further deciduous plantings. Considerable land is now in the rough state, suitable for expansion. (All information regarding facilities, buildings, general information, curriculum, and course descriptions at the Voorhis Unit will be found listed under the Voorhis Division of the catalog.)

Buildings

Buildings on the campus and farm include the general structures for dormitory, classroom and administration use, and the headquarters for the major departments.

Dormitories

The San Luis Obispo campus has four main dormitory buildings, a unit of six new dormitories, a four-wing resident unit with adjoining recreational hall, and two groups of cottages. The four main buildings house about 275 students, the new dormitories house 250 students, and the resident unit will accommodate another 250 students. The two cottage groups each contain three buildings housing 12 students, making a total of 72 men living in these home-like structures, which are located adjacent to agricultural production units for the convenience of the students who assist in the operation of these agricultural units. All dormitory rooms are modern, well-lighted, and especially constructed for student use.

Cafeterias

Two cafeterias, both serving three meals per day, seven days per week, and capable of accommodating a total of 2,000 students per meal, are located on the campus. Cafeteria No. 1 is located near the main dormitory group, and Cafeteria No. 2 is located adjacent to the new dormitory housing units. Meals are sold to students on meal tickets or separately at cost.

[41]
Infirmary

A 12-bed infirmary with a completely equipped examination and treatment room is located on the campus near the new dormitory units. A full-time nurse and two student assistants make it possible to give 24-hour medical service to students. A physician is on call at all times.

Veterans' Village

For married veterans the college has provided a “village” consisting of 75 movable houses and 50 trailers centrally located on the campus. Of the 75 movable houses, 38 are three-room units with two bedrooms, kitchenette, bath, and living room; 37 are two-room units with bedroom, living room combined with kitchenette, and bath. The trailers are of redwood siding constructed along conventional lines. The “Veterans' Village” is now completely landscaped, has central wash rooms with electric washing machines, and all modern conveniences. A mobile food market, operated as a private business by two veteran students, serves the on-campus residents with a complete line of groceries, vegetables, meats, etc. Milk and poultry products, as well as fruit and truck crops, can be purchased by these families at the campus sales stores of these departments.

To help alleviate the housing shortage problem facing new instructors, the college brought in five four-apartment units in the fall of 1946 to house 20 faculty families. These were erected and ready for occupancy in December, 1946.

A site has been cleared and all arrangements completed for bringing to the campus an additional 188 trailer units for married veterans.

Athletic Facilities

Most recent addition to the college's physical education facilities is the new $60,000 athletic field, which was dedicated May 3, 1947. The new field includes a regulation quarter mile track with a 220 yard straightaway, a new practice football field, a regulation baseball diamond with the shortest foul line extending 320 feet from home plate. The new athletic plant, completely enclosed by a wire fence, covers an area of 10 acres, and will include an outdoor basketball court, and eventually two more tennis courts. A new field house is being built adjacent to the ball park and will provide locker and shower facilities for 200 men.

The State Division of Architecture is now working on plans to increase the size of the college's gymnasium to provide additional floor space for boxing, gymnastics, fencing, wrestling, badminton, and other minor sports. The present gymnasium floor is of standard basketball court size with a spectators' balcony. The gymnasium has two separate locker rooms with modern shower rooms. One is adjacent to the adjoining indoor swimming pool, which is 75 feet long and 35 feet wide. The pool is complete with heating, filtration and chlorinating equipment and has a spectator gallery which will seat 300 persons.

Close to the gymnasium is the football field with permanent grandstand seating, plus bleachers for about 3,000 persons. It is anticipated that additional seating will be provided to increase the seating from 3,000 to 4,500 by September, 1947. The field is adequately lighted for night games.

Classroom and Administration Building

In keeping with the progress of the California State Polytechnic, a new Classroom and Administration Building was constructed in 1941-42. This new unit with its 52,000 square feet of floor space occupies a commanding position north of the gymnasium. The building is of Spanish design, with a tile roof and a clock tower at the northwest corner. The upper story accommodates large lecture classes and the library, while the ground floor houses the administrative offices of the school and the Bureau of Agricultural Education, the accounting office, the registrar's office, and faculty offices. In the basement are housed the newly equipped print shop,
with bindery, publications offices, mimeograph room, veterans' administration offices and counselling rooms, student store, and post office.

Three other major buildings are devoted to classrooms and general laboratories. One is the Agricultural Education building, last to be built of the three original structures planned in 1901. The others are one-story units in the center of the campus, providing space for physical and biological science, music, landscape drafting, mathematics, and similar courses.

In addition to the permanent buildings, forty 20 ft. x 48 ft. temporary buildings have been moved onto the campus for classroom and laboratory purposes. Twenty of these units are equipped for use as classrooms. The remaining units are distributed over the campus in connection with existing laboratories and will be used as laboratories and shops in the various departments.

Well distributed over the campus and farm are the major structures devoted to agricultural instruction. These include the following:

AGRICULTURAL INSTRUCTION BUILDINGS

Swine Unit
This consists of a central farrowing house, and more than 30 double colony houses and pens for feeder pigs, brood sows, and boars. The plant is under the supervision of an instructor and a student assistant; while many meat animal students have either self-owned swine projects or responsibilities in connection with the college herd.

Beef Unit
The beef unit consists of two widely separated plants. Newer of them is the beef feeding unit, consisting of two feeding wings and a central feed storage unit. This accommodates about 150 steers, fed out annually in student projects. A central enclosed court provides excellent facilities for judging and other instruction, training in showmanship, and project supervision. The other building is a calving and feed storage barn at the northwest corner of the farm, for the foundation herd.

Central Feed Processing and Storage Plant
A new feed processing building, 60 x 60 feet, was built in 1947 and will be used extensively by students in grinding, mixing, and preparing feeds for livestock projects on the campus. In addition to the processing building, the plant includes eight storage tanks, 21 x 18 x 6 feet, which makes it possible to purchase and store one full year's supply of grain.

Sheep Unit
One of the more recent major agricultural buildings is located just north of the main campus, and provides permanent facilities for lambing, feed storage, and lamb feeding projects. The climate of San Luis Obispo is well adapted to sheep production and instruction in sheep husbandry.

Dairy Unit
The dairy unit consists of a large feeding barn, a milking barn and bottling plant, a calf barn, and a bull barn with welded steel pipe corrals and pens. All of these structures are located adjacent to each other along one campus road, giving a compact unit for instruction in dairy husbandry. A new dairy building 40 x 100 feet with space for judging dairy cattle was added during 1946-47.

Poultry Unit
The poultry unit includes a central egg house and incubation building, also utilized for feed storage; a number of houses for egg-laying, brooding, trapnesting, and similar work. A number of range colony houses are also provided.
To facilitate the project program in which each Poultry Department student cooperates, a new sales office and egg candling building was constructed and put into use in the fall of 1940. Construction was completed in 1947 on an addition to the Egg Processing and Sales Building. The new addition includes lavatories, showers, butchering room, wrapping and refrigeration facilities.

**Ornamental Horticulture Unit**

Buildings for ornamental horticulture include a propagation house, greenhouses, and a lath-house. The entire campus provides the principal project area, with students doing all of the landscaping and grounds maintenance under the supervision of the instructor.

**Draft Horse Barn**

Three registered Suffolk mares and other draft horses are stabled at the draft horse barn and are used in various types of farming operations.

**Thoroughbred Breeding Unit**

A new barn, paddocks, and pastures to accommodate eight Thoroughbred mares and their offspring, and two Thoroughbred stallions, was dedicated in December of 1940.

Mares were donated by the following men: C. E. Perkins, Walter T. Wells, Bing Crosby, Charles E. Cooper, A. W. De Veau, Walter H. Hoffman, and Henry P. Russell. A $15,000 imported stallion was donated by Walter T. Wells.

Adequate barns and stalls are available to accommodate these mares and their foals and yearlings. Pastures and paddocks to accommodate mares and foals, and yearlings also are provided. The yearlings are sold at the California Breeders' annual sale.

California Breeders' Association, under the program, is donating services of different stallions for these mares.

**Agricultural Engineering**

In addition to two older shop buildings devoted to agricultural engineering laboratory work, two new shops, built in 1940 by the Federal Government for national defense training, have been converted and completely equipped as farm machinery laboratories. A new farm machinery and agricultural engineering building, 100x180 feet with a 60x60 foot wing, was completed in the summer of 1947.

**ENGINEERING INSTRUCTION BUILDINGS**

**Engineering Building**

In this large, modern, two-story structure, built in the spring of 1940, are the laboratories, faculty offices, and some of the classrooms used by three of the major engineering departments. The building, with its two large wings, and an assembly room for 500 students, is completely air conditioned.

**Air Conditioning and Refrigeration**—Occupying one wing of the building, this department has one of the finest equipped college laboratories of its type in the United States. The laboratories, having a total of more than 6,720 square feet of floor space, have available for instructional purposes more than $75,000 worth of equipment. These laboratories consist of a refrigeration laboratory, a heating and ventilating laboratory, and a sheet metal shop. In addition to these laboratories, technical students use the welding and machine shops extensively.

**Architectural Engineering**—Large, well-lighted drafting rooms, occupying the entire top floor of the Engineering Building are used exclusively
by this department, which also has available on the same floor a well-equipped blueprint and reproduction room.

**Electrical Engineering**—This department occupies a wing of the Engineering Building approximately 40x110 feet, which is located adjacent to the college power plant. Approximately 1500 square feet of floor space was made available to the department as an electrical shop building by the recent erection of an all-metal emergency structure behind the power plant. The laboratory and shop is well equipped with various types of D.C. and A.C. electrical apparatus, and tools and equipment for overhaul, maintenance and repair of electrical equipment.

**Aeronautic Engineering Buildings**

Supplementing the main aeronautical engineering building, with one wing devoted to construction and the other to engine overhaul, are a number of other buildings, including a new 120x100 foot hangar located adjacent to the college’s flight strip. The flight strip is 3,000 feet long and 300 feet wide. A 20x48 foot utility building has been installed next to the new hangar. In 1947 three new all-metal buildings were constructed adjacent to the aeronautical engineering shops: one 20x96 foot building for paint and wing construction; one 20x48 foot storage building, and one 20x68 foot building for engine overhaul, sand blasting, and cadmium plating.

**Electronic and Radio Laboratory**

The entire second floor of the former administration building is being used by the Electronic and Radio Engineering Department as four laboratories, a shop, an instrument stockroom, a small parts stockroom, and offices. The laboratories are equipped with special benches designed for radio work. The laboratory has ample testing instruments and equipment, including two radar units.

**Power Plant**

The central heating and power generating and utilities dispersing unit is used by the Mechanical Engineering Department as its laboratory. The power plant is equipped with internal combustion engines, steam engines and steam boilers, and produces a portion of the electric power used on the campus.

**Machine Shop**

This department has moved to a building built just prior to the war as a machine shop for training defense workers. Considerable new equipment is being installed in this well-lighted, large shop building, and all activities of the department have been transferred to the new location.

**Welding Shop**

A large, well-equipped welding shop is available for instruction to students from all divisions of the college. The rear of this shop has been converted into a construction materials testing laboratory.

**Other Facilities**

In addition to the major buildings mentioned, facilities are provided for the many related subjects and sciences.

**PROJECT OPERATION**

Closely tied in with the college’s objective of training students for an occupation is the college’s unique project system. This system provides for self-owned or managerial projects operated by students in such a way as to provide an opportunity to gain knowledge and practical experience in commercial production and marketing of agricultural products or in the construction, rebuilding, repair, or maintenance of industrial machinery.
and equipment. This combination of the very practical “learn by doing” and “earn while you learn” philosophies not only enables a student to earn money while doing work directly related to his major academic interest, but also creates an added incentive for the more rapid acquisition of further skills and knowledge to the end that the projects will be more profitable.

In each major department students are encouraged by their instructors to take part in project activities, either individually or as a group. There is available a $90,000 revolving fund from which students may borrow for an investment in livestock, ornamental plants, seeds, feed, machinery to be rebuilt, etc. No co-signer is required for a student to borrow from the project fund, and the fund is so operated as to guarantee against individual student financial loss. Most popular agricultural projects are those of fattening livestock, raising foundation beef, sheep, swine, or dairy cattle; conducting individual dairy projects or operating the project herd as a group; carrying on various production activities of the poultry unit as projects; growing field or truck crops and ornamentals.

In the industrial departments the projects are usually group rather than individual projects. In aeronautics, for example, the department, which is the 84th government approved repair station in the United States and operates under strict C.A.A. regulations, accepts aircraft or engines damaged beyond feasible commercial repair to be overhauled for their owners or to be purchased outright and rebuilt by students.

The project revolving fund of $90,000 grew out of a loan arrangement started in 1924 with the Citizen's State Bank, which enabled students to borrow directly from the bank to finance their projects. Faculty members of the school stood behind this arrangement to protect the bank. From the very beginning of this project system, a small percentage of each student's net profit reverted back for the purpose of establishing and increasing the revolving fund. Because of the small enrollment in the early years of the project system, the fund was too small to handle the financing of all projects. Up until 1932, students were still borrowing money through the bank to finance many of the projects. After 1933, the college's rapid growth was instrumental in building the fund up to its present size.

The fund is administered by a nonprofit corporation known as the California Polytechnic School Foundation, the board of directors of which are all faculty members. It operates under a lease arrangement made through the State Departments of Education and Finance. Provisions of the lease define the use of the corporation's funds. The accounts are audited by the Department of Finance, and at the close of a fiscal year any cash or securities in excess of the given working capital, which has been set at $90,000, is sent to the General Fund of the State. The project system of instruction is carried on at the Voorhis Unit of the college as well as at San Luis Obispo.

Agricultural Project Facilities at San Luis Obispo

The facilities available for agricultural projects are similar to those which would be found on any well-equipped ranch.

In foundation livestock, California State Polytechnic College has some of the best in the State. The beef herd includes Herefords, Angus, and Shorthorns, offspring of which are sold to the students. All necessary equipment for beef cattle production—barns, dehorning and loading chutes, castration equipment, stock horses, etc., are available. Many show champions have come from the beef herd.

The dairy herd includes purebred Jerseys, Guernseys, and Holsteins, including two State Fair champion bulls as herd sires. Equipment includes all the necessary paraphernalia for feeding, milking, care of calves and bulls, milk testing, bottling, separating, and other operations. Students own about 50 head of purebreds.
General Information

The swine herd is the outgrowth of a gift from C. Harold Hopkins, owner of Straloch farm, who gave his entire Poland herd—one of the best in western states. Polands, Berkshires, and Durocs are in the breeding herd. Equipment includes the farrowing pens, fattening pens, pig brooders, feeding equipment, etc. Students market between 600 and 700 fat and breeding swine each year.

The sheep flock is principally Hampshire and Southdown, including the sires and dams of many show champions. The new sheep unit centralizes the project facilities, which are typical of a large scale farm enterprise. Students learn shearing and the care of fleeces, as well as lamb production.

The poultry flock consists of between 3,500 and 4,000 birds. The equipment includes a modern incubator, egg-handling facilities, brooders and brooder houses, pens for trap-nesting and pedigree work, and similar devices. A student assistant and the students themselves care for every operation under the supervision of the department head.

Equipment in ornamental horticulture includes land and buildings already mentioned, garden tractors, potting and spotting equipment, and landscape drafting.

SERVICE AND EXTENSION

The college serves as headquarters for the State Bureau of Agricultural Education. From this point, the bureau directly supervises vocational agriculture throughout the State and provides, with the assistance of the college, foundation stock for high school boys and teaching materials for 275 instructors in 175 high schools in California. This service program to secondary schools includes such activities as: The using of faculty members to visit schools to discuss with teachers and students, dairy, animal husbandry, crops, poultry, farm mechanics, and other agricultural problems; the writing of articles by instructors for agricultural magazines; the corresponding by the faculty members to advise high school departments on the solution of problems; the judging of livestock, poultry, and other products at fairs; the furnishing of breeding stock and hatching eggs to improve the herds and flocks of Future Farmers throughout the State; the preparing of teaching aids, such as film strips, price charts, blueprints, photographs, and economic analyses; and the holding of annual conferences on the campus.

Through the president of the college, who is also the State Director of Vocational Education, the staff is kept constantly in touch with new developments in agricultural education, business education, trades and industries, distributive education, and homemaking education.

SUMMER QUARTER

California State Polytechnic College offers a summer quarter for old or new students. Summer quarter offerings make it possible for a student to shorten the over-all length of time necessary to complete a prescribed curriculum.

The summer quarter is divided into two six-week periods, which is equal to the regular twelve-week period of the fall, winter, or spring quarters. However, a student attending the summer quarter has the option of taking either the first or second six-week period, or both.

A minimum load for the total summer quarter is the same as for other quarters. A student must carry a minimum of six quarter units per six-week period, which is equivalent to the 12-unit minimum required in the fall, winter, or spring quarters.

Admission requirements, fees and deposits, and other regulations are the same for the summer quarter as for the other three quarters of the school year.
California State Polytechnic College

IN-SERVICE PROGRAM

The college is also the in-service training center for vocational agriculture teachers. During a special summer session, which is not to be confused with the regular summer quarter, courses in skills and professional improvement are offered under the joint sponsorship of the California State Polytechnic College and the State Bureau of Agricultural Education. In addition, the annual conference of the California Agricultural Teachers Association is held on the campus.

EXTENSION COURSES

Extension courses on a college level may be given at various centers throughout the State in certain specialized fields, at such times as demand requires and instructors are available. Credits obtained in such courses may be applied toward meeting credential requirements for special fields of vocational education.

Full information concerning the extension course system will be sent on request.
ADMISSION, REGISTRATION, AND GRADUATION

ADMISSION REQUIREMENTS

It is the belief of the California State Polytechnic College Administration that the admission of a student to its classes and his progress through the institution, should be based upon demonstrated and continuing ability and interest, rather than on the completion of a previous pattern of courses under a different environment.

To substantiate this belief, experience has shown that students who have been required to complete a conventional college preparatory course sometimes do not receive best grades; but when confronted with courses involving the sciences and techniques of agriculture and industrial operations in which they are actively interested, they do very well.

The opposite is sometimes true, in that students of good intelligence may make excellent grades in preparatory schools, but when confronted with the need to demonstrate actual skills in technical courses, definitely lack such abilities and do not make successful students.

It is the objective of California State Polytechnic College to give a core of usable and job-getting information and skill courses, surrounded by required natural and social sciences, and complemented with such work in other than the major fields, as to produce a graduate from the various curricula with the greatest amount of employability, training in living with others, and reasonable culture.

Therefore, admission to California State Polytechnic College for any of the various curricular levels is open to the graduate of any standard high school upon the submission of evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by a satisfactory score on such tests as may be required.

Placement tests for the Engineering Division include English, Mathematics, Physics, to determine whether the students qualify for admission in degree English, college algebra, and college physics, which are prerequisites to enrolling in a major course on a degree level. Similar tests are given Agriculture and Science and Humanities students to determine their proficiency in English, algebra, agricultural mechanics, and science. Preparatory courses are provided for students who need to "brush up" before enrolling in major work on the degree level.

Persons over 21 years of age who have not completed high school may be admitted as special students. Any veteran of World War II who served 90 days or more in the armed services may enter as a regular student whether he has completed high school or not.

In order to complete application for admission, a student must submit the following: First, the application for admission and, second, transcripts of all previous high school and college training. If the individual wishes to stay in one of the dormitory units operated by the college, it will be necessary that he also make a $10 room deposit.

Transcripts and records presented for admission or evaluation will remain in the student's folder as a part of his permanent record upon completion of registration by the student.

Individuals transferring from other colleges or universities who are allowed to enroll at California State Polytechnic College and who would have been on probation had they remained in the college or university, will be admitted to California State Polytechnic College on probation.
ADMISSION WITH ADVANCED STANDING

Persons who have attended junior colleges or four-year colleges will be given full credit for such courses as may be applicable to the pattern of course work in the curricula followed.

Each application for admission with advanced standing will be considered upon its merits. In accepting work in the major field, the registrar will determine, by examination or otherwise, that the student has acquired the necessary skills in addition to subject matter. Final evaluation of credit transferred to California State Polytechnic College will not be made until after a full year of residence is completed with at least a minimum load. Transfer credit is not allowed for a grade of D. Evaluation of in-service training will be made on the basis of American Council on Education recommendations.

No limit is placed upon the number of transferable credits, except that no student may be graduated in any of the various curricula with less than three full quarters of residence, or with less than 50 quarter units of work received in residence at California State Polytechnic College. Two full quarters in residence must be the last two quarters prior to graduation.

The date of graduation for students who do not meet all requirements at any June commencement will show on their permanent record as the date all requirements are met. The student will then receive his diploma at the next annual commencement.

CREDIT BY SPECIAL EXAMINATION, AND AUDITING

Regularly enrolled students are allowed the privilege of “challenging,” or taking courses by special examination. Experience or previous training cannot be substituted for college credit. Individuals often enter the college, however, especially qualified in particular subjects. Individuals who feel that they are qualified to take any of the courses offered by special examination may do so under the following regulations:

1. Unless the student is regularly enrolled in the course at the time he decides to challenge it and take the special examination, a challenge fee of $1 per unit will be charged.

2. Students desiring credit by examination in courses in which they are enrolled may request such an examination from the instructor at the beginning of the quarter. The instructor has the privilege of including written, oral, or practical tests, or a combination of all three types.

3. A student may receive a grade no higher than a B as a result of passing a course by examination.

4. The following procedure will be followed in applying for special examinations under 1 above:

   a. Report to the recorder’s office and secure a special examination petition.
   
   b. Complete this petition, secure the signature of the instructor involved in the course, signature of the registrar, and the signature of the dean of instruction. After the privilege of taking the special examination is granted, the student must pay the special examination fee of $1 per unit, present the approval sheet to the instructor involved, and take the test.
   
   c. When the special examination petition is returned to the recorder’s office by the instructor, it must be signed in full and must have attached a copy of the examination questions and the written examination, if it is a written examination; a list of skills in which the student was tested, if the examination was a practical examination; and a list of the questions, if the examination was an oral examination.
5. Regularly enrolled students are allowed to audit courses if they receive permission from the instructor in charge. Students will not receive units of credit nor grades for courses audited.

**FEES AND DEPOSITS**

**State Fees and Deposits**

<table>
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<th>Fee Description</th>
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<tr>
<td>Laboratory and Course Fees (quarter)</td>
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<tr>
<td>Breakage Deposit (year)</td>
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<tr>
<td>(all deposits refunded at end of year if there are no charges against student)</td>
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<tr>
<td>Late Registration Fee</td>
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<td>Late Return of Registration Cards Fee</td>
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<tr>
<td>Transcript Fee (no charge for first copy)</td>
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<td>Evaluation of Record Fee</td>
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<tr>
<td>Course Challenge by Special Examination Fee (per unit)</td>
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<tr>
<td>Extension Course Fee (per unit)</td>
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Example of what the average student enrolled under Public Law 16, 346, or the California Veterans Educational Institute pays at time of registration:

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<th>Item</th>
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<td>Board (per month)</td>
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<td>Books and Supplies</td>
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<td><strong>$98.50</strong></td>
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**SCHOLARSHIPS**

**FRESHMAN SCHOLARSHIPS**

A number of freshmen scholarships are available at California State Polytechnic College for young men immediately after they have graduated from high school. In all cases, evidence must be submitted that additional financial assistance is necessary in order for the applicant to complete school. The applicant for these scholarships must be approved by the high school principal and one other instructor.

The sophomore and advanced scholarships are granted on the basis of performance of the individual in his work and activities at California State Polytechnic College.

**Sears, Roebuck and Company State-wide Scholarship Awards**

The Sears, Roebuck and Company offers 21 scholarships to California State Polytechnic College in two different groups; one group being “state-wide scholarships” and the other a “sophomore scholarship” award.

Deeply cognizant of the necessity of developing trained agricultural leadership in the Nation, and recognizing the splendid results in this field now being accomplished by California State Polytechnic College, Sears, Roebuck and Company wishes to broaden the availability of such training by offering scholarships to needy California farm boys of good character and capabilities who might otherwise be unable to enter college.

In carrying out this policy, Sears, Roebuck and Company has granted to California State Polytechnic College, 20 scholarships of $100 each to be awarded to first-year students who enroll in agriculture for the school year of 1947-48. It is the earnest desire of Sears, Roebuck and Company to make these permanent annual scholarships.

The scholarship awards will be determined on the basis of:

1. Financial need for assistance to continue his education.
2. Interest in agriculture and accomplishments as evidenced by his supervised home farm program.
3. Scholarship as shown on the transcript of high school credits, which shall include a statement of the number in the graduating class and the applicant's scholarship ranking in the class.

* If trainees have a Veterans Administration Letter of Entitlement when they register, books and supplies will be furnished. If they do not have the Letter of Entitlement, the trainee must pay for books and supplies until the time the letter is presented. There will be a refund made to the veteran when the letter is presented.
4. Citizenship and moral integrity, as certified by the high school principal, agriculture teacher, and others qualified to pass judgment on the applicant.

Application should be made through the local high school agriculture teacher, who will have all the necessary information. All candidates for these scholarships will be notified as to their status on or before August 15, 1947.

**South San Francisco and Stockton Union Stockyards Company Scholarship**

Two annual $100 scholarships are awarded at a Future Farmers of America Marketing Day, or a similar event, on the basis of excellence of performance in the farm home program in the production of beef cattle, sheep, or hogs.

**Safeway Stores, Inc., Scholarship**

One annual $100 scholarship is awarded at a Future Farmers of America Marketing Day, or a similar event, on the basis of excellence of performance in the farm home program in the production of beef cattle, sheep or hogs. Applicants are limited to those participating in this special event.

**The Poultrymen's Cooperative Association of Southern California Scholarship**

One annual scholarship of $100 will be awarded to a prospective student who has had an outstanding home farm program in high school, and part of his home farm program must have been with poultry. The applicant must be a resident of one of the following counties: Fresno, Kings, Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, San Diego, San Luis Obispo, or Ventura.

**Washburn & Condon Scholarship**

Washburn & Condon Livestock Commission Company of Los Angeles and San Francisco, has made available a $100 scholarship to a resident of any part of California. This young man must have carried an outstanding home farm project that included the production for market of some beef animals, hogs, or lambs, or two or more of them. He must have graduated from high school and be eligible to attend California State Polytechnic College for the school year immediately following the awarding of this scholarship, and he must enroll in the Animal Husbandry Department. He should expect to engage in the production of market livestock after completing his education.

**Challenge Creamery Scholarship**

One annual scholarship of $100 will be awarded to a Future Farmer student who excels in dairy production, and who enrolls as a freshman in dairy industries at California State Polytechnic College. The applicant must be a resident of one of the following counties of California: Humboldt, Sonoma, Marin, Butte, Tehama, Colusa, Sutter, Glenn, San Luis Obispo, Merced, Fresno, Tulare, Kings, Los Angeles, San Bernardino, Imperial, or Stanislaus.

**The E. C. Loomis and Sons Scholarship**

One annual scholarship of $100 will be awarded to the outstanding graduate in the high school vocational agriculture departments at San Luis Obispo, Arroyo Grande, Santa Maria, or Cambria.

*These three scholarships go to outstanding Future Farmers for excellence in production of market livestock as demonstrated at the Future Farmers of America Marketing Day held at Stockton this year—one company giving the award to a beef producer, one to a lamb producer, and one to a swine producer. The type for which the particular scholarship is given rotates from year to year. Awarded at the annual Grand National Junior Livestock Show, San Francisco.*
California State Polytechnic College

ADVANCED STUDENT SCHOLARSHIPS

Philip R. Park, Incorporated, Scholarship

The Philip R. Park, Inc., Naval Station, San Pedro, California, will award two $100 scholarships to two worthy young men who have completed two years of outstanding work at this school in Animal Husbandry, Dairy Husbandry, or Poultry Production.

Rucklos Calcium Carbonate Company Scholarship

One annual scholarship of $100 will be awarded to a worthy student of animal or dairy husbandry who has completed his freshman year at California State Polytechnic College.

W. P. Rucklos Scholarship

One annual scholarship of $100 will be awarded to a worthy aeronautical student who has completed his freshman year at California State Polytechnic College.

OTHER SCHOLARSHIPS

Carl Raymond Gray Scholarships

Four Carl Raymond Gray $100 scholarships are made available by the Union Pacific Railroad, Omaha, Nebraska. Applicants must have completed two or more years of vocational agriculture, including commendable projects. One scholarship is to be awarded to one resident in each of the following counties: Los Angeles, Riverside, San Bernardino, and Orange. Scholarships may be used at California State Polytechnic College, University of California, or Chaffee Junior College. All applications, however, must be submitted not later than April 15th. Scholarships shall be used within the calendar year after the date of graduation from high school. All project books and a picture of the applicant and, if possible, pictures of his project, must accompany the application.

Sears, Roebuck and Company Sophomore Scholarship

The Sears, Roebuck and Company, as a continuation of the freshman scholarship plan already described, will award a $200 sophomore scholarship to the most outstanding student of those receiving Sears, Roebuck awards as first year students.

Rotary Scholarships

Beginning with the school year of 1946-47, the San Luis Obispo Club of the Rotary International made available to California State Polytechnic College, two $150 scholarships. These scholarships are to be awarded to students of outstanding ability in extra-curricular activities. These students must carry a better than average grade record and must have at least a junior standing the fall quarter following the scholarship awards. The first awards were made in the spring of 1947.

STUDENT LOAN FUNDS

There are seven Student Loan Funds to assist temporarily worthy students. Loans from these funds are made for varying periods of time and are passed upon by a faculty committee.

The character and integrity of the student are the primary qualifications for obtaining a loan, upon evidence of real need for such temporary assistance. Students who have spent funds far beyond the necessary school expenses will not be considered for loans, even though need is shown.
The Wrasse Fund

The principal source of loans is the Leopold Edward Wrasse Loan Fund, established by an elderly Fresno County farmer for the benefit of deserving boys desirous of an education and needing financial assistance. Approximately $5,500 will be available for loans during the year 1947-48 with the following general provisions:

1. First preference will be given to graduates of Caruthers High School in Fresno County, second preference to graduates of other high schools in Fresno County, and third preference to graduates of California high schools.

2. During the 12-months' period preceding the granting of the loan, the applicant must have earned through his own endeavor at least half of the amount of the desired loan, and must furnish evidence to this effect.

3. Interest will not be charged until graduation, or until the student ends his enrollment. Loans must be repaid within three years after the termination of enrollment.

The Rotary Club Fund

The San Luis Obispo Rotary Club has established a student loan fund open to any deserving student after one quarter of successful attendance. Applications are made through the business office.

The California State Polytechnic Women's Club Fund

The social club of women staff members and faculty wives at San Luis Obispo has established a student loan fund, added to each year by some type of public benefit. Loans are made to deserving students after one quarter of successful attendance.

Student Accommodation Loan Fund

The California State Polytechnic Women's Club and the Associated Students have set up a fund from which students may secure small short term loans.

Wilder Memorial Loan Fund

The Alumni Association sponsors the Wilder Memorial Loan Fund, from which small short term loans are made to deserving students.

Veterans Loan Fund

A short time loan fund established by the California State Polytechnic Women's Club for assisting needy veteran-students.

California Polytechnic Memorial Loan Fund

A loan fund which was established from the contributions made by numerous persons. It is designed to aid needy students where immediate financial assistance is needed.

GRADUATION REQUIREMENTS

Degree Curricula

GENERAL REQUIREMENTS FOR GRADUATION

All candidates for the Bachelor's degree shall have completed the requirements in one of the four-year curricula, shall have spent not less than three quarters in residence, two quarters immediately preceding graduation, shall have earned not less than 50 quarter credits in residence, and shall have earned a total number of grade points at least equal to the number of units attempted.
Candidates from the engineering and industrial division must present a minimum of 212 quarter hours of credit for graduation. Candidates from the agricultural, and science and humanities divisions must present a minimum of 200 quarter hours of credit for graduation.

All candidates for the Bachelor's degree shall have completed the following:

1. Eleven hours of English, including nine hours of composition and two hours public speaking.
2. Nine hours of political science, including three hours each of American government and Survey of U. S. History; and three hours chosen from Background of Modern Affairs or State and Local Government.
3. Twelve hours of physical science.
4. Three hours of family psychology.
5. Five hours of physical training, including two hours of health education.
6. Two hour course in undergraduate thesis writing and an acceptable thesis.
7. Four hours of undergraduate seminar.
8. One hour of fire safety and accident prevention.
9. In addition, the graduation requirements of the division in which they have selected work and the specific requirements of the department major they have selected.

DIVISION REQUIREMENTS FOR GRADUATION

Agricultural Division

All candidates for the Bachelor's degree with a major in agriculture shall have completed, in addition to the general requirements, the following:

1. Four hours of organic chemistry.
2. Six hours of agricultural mechanics, including two hours in the operation, field adjustment, and servicing of tractors, except in the Dairy Manufacturing curriculum in which no agricultural mechanics is required.
3. Nine hours in the principles of economics.
4. Six hours in accounting.
5. Six hours in agricultural economics selected from among farm management principles of marketing, cooperative marketing, and agricultural prices.
6. Five hours of mathematics, including three hours of algebra.
7. Six hours of soil science.
8. Nineteen hours of biological science (courses in biological science field are determined by major selected).
Engineering Division

All candidates for the Bachelor's degree with a major in engineering shall have completed, in addition to the general requirements, the following:

1. Eighteen hours of mathematics, including college algebra and trigonometry, analytic geometry, differential calculus, and integral calculus.
2. Twelve hours of college physics.
3. Six hours of engineering drafting.
4. Nine hours of economics including industrial management, industrial economics, and labor relations.

Science and Humanities Division

All candidates for the Bachelor's degree in the Science and Humanities division shall have completed, in addition to the general requirements, the following:

1. Two hours of Personal Development.
2. Nine hours of Literature.
4. Six hours of College Mathematics.
5. Six hours of General Biology or the equivalent.
6. Three hours of Background of Modern Affairs or State and Local Government.
7. Five hours of General Psychology.
8. And in addition, the requirements of one departmental major.

DEPARTMENTAL REQUIREMENTS FOR GRADUATION

All candidates for the Bachelor's degree shall have completed, in addition to the general and division requirements, the courses required under the departmental major they have selected.

In the Science and Humanities division majors may be selected from the following: Health and Physical Education, Life Science, Mathematics, Physical Science, and Social Science.

Technical Curricula

GENERAL REQUIREMENTS FOR GRADUATION

(The Technical Curricula are offered only in Agricultural, Engineering and Industrial Divisions.)

All candidates for the technical certificate shall have completed the requirements in one of the three-year technical curricula, shall have spent not less than two quarters in residence and have earned not less than 32 quarter credits in residence.
Candidates from the engineering division shall present a minimum of 159 quarter hours of credit for graduation from the technical curricula. Candidates from the agricultural division must present a minimum of 150 quarter hours of credit for graduation from the technical curricula. All candidates for the technical certificate shall have completed the following:

1. Nine hours of English.
2. Five hours of physical training, including two hours of health and hygiene.
3. Three hours of American government.

**DIVISION REQUIREMENTS FOR GRADUATION**

**Agricultural Division**

All candidates for the technical certificate with a major in agriculture shall have completed, in addition to the general requirements, the following:

1. Six hours in agricultural mechanics, including a minimum of two hours in tractor operations, except in the Dairy Manufacturing curriculum in which no agricultural mechanics is required.
2. Six units in biological science, including three in botany and three in entomology, or six in animal biology and three in anatomy and physiology.
3. Twelve hours in economics, including three hours in economic problems, six hours in bookkeeping and accounting, and three hours in farm management.
4. Two hours of agricultural mathematics.
5. Three hours in soils.

**Engineering Division**

All candidates for the technical certificate for the major in engineering shall have completed, in addition to the general requirements, the following:

1. Nine hours of mathematics.
2. Nine hours in physics.
3. Six hours of machine shop.
4. Six hours of welding.
5. Six hours of engineering drafting.

**DEPARTMENTAL REQUIREMENTS FOR GRADUATION**

The requirements under the major departments are listed in the catalog under each department. In the technical curricula many courses in both major and related fields cannot be used to meet graduation requirements in any of the degree curricula. In the engineering division, the nine hour mathematics requirement may be Mathematics 11, 12, 13. This series does not carry degree credit. Physics 1, 2, 3, which are nonlaboratory courses, will meet the physics requirement but do not carry credit toward meeting degree graduation requirement. In the technical curricula no preparatory or corrective English will be required previous to enrolling in technical English.
Vocational and Two-year Technical Curricula

GENERAL REQUIREMENTS FOR GRADUATION

Two year curricula are offered both in the Agricultural and the Engineering Divisions. All candidates for these certificates shall have completed the first two years of any of the technical curricula, shall have spent not less than two quarters in residence, and have earned not less than 32 quarter credits in residence.

Candidates from the engineering division shall present a minimum of 106 quarter hours of credit for graduation from the two-year technical curricula. Candidates from the agricultural division must present a minimum of 100 hours of credit for graduation from the vocational curricula.

All candidates for these certificates shall have completed the following:

1. Nine hours of English.
2. Five hours of physical training, with at least two hours in health hygiene.
3. Three hours of American government.

DIVISION REQUIREMENTS FOR GRADUATION

Agricultural Division

All candidates for the vocational certificate with a major in agriculture shall have completed, in addition to the general requirements, the following:

1. Two units in agricultural mathematics.
2. Six units in biological science, including either three in botany and three in entomology, or three in animal biology and three in anatomy and physiology.
3. Six units in agricultural mechanics, except in the Dairy Manufacturing curriculum in which no agricultural mechanics is required.
4. Nine units in economics, including economic problems, three; farm bookkeeping and accounting, six; and three in farm management.

Engineering Division

All candidates for the vocational certificate with a major in engineering shall have completed, in addition to the general requirements, the following:

1. Nine hours of mathematics.
2. Nine hours of physics.
3. Six hours of machine shop.
4. Six hours of welding.
5. Six hours of drafting.

DEPARTMENTAL REQUIREMENTS FOR GRADUATION

The requirements under the major departments are listed in the catalog under each department. In the vocational and two-year technical curricula many courses in the major and related fields cannot be used to meet graduation requirements in any of the degree curricula. For example, the English listed under the general requirements for such curricula is Technical English. English composition will substitute for Technical English, but Technical English will not substitute for English composition. In the engineering division, the nine hour mathematics requirement
California State Polytechnic College

may be Mathematics 11, 12, 13. This series does not carry degree credit. Physics 1, 2, 3, which are nonlaboratory physics courses, will meet the physics requirement but do not carry credit toward meeting degree graduation requirements.

TEACHER TRAINING

California State Polytechnic College is accredited by the State Board of Education to recommend for the following credentials:

- Special Secondary Credential in Vocational Agriculture
- Special Secondary Limited Credential in Agriculture
- Special Secondary Credential in Physical Education

General Requirements of California State Polytechnic College for Recommendation for a Teaching Credential

Because of the wide and varied responsibilities placed upon teachers, the State of California and California State Polytechnic feel that each candidate for a credential should complete a program which includes the broader aspects of human culture, as well as the knowledge and skills necessary to successful teaching in specific fields. An examination of the courses listed under general and division requirements will reveal that provision has been made for a study of: Democratic ideas and ideals of government, including intelligent comprehension of social, economic, and political conditions existing among nations and between the Nation and State; the types of work through which American citizens gain their livelihoods; the basic laws of physical and mental health; processes and knowledges used in effective thinking; the social understanding and appreciation of the fine arts; and the role of science in improving human welfare.

As soon as a student feels that he has the personal qualifications essential to successful teaching, he should file with the Director of Teacher Training an application for admission to teacher training. In addition to this application he must at the proper time submit:

A. A health certificate on the form prescribed by the State Board of Education.
B. Evidence of the completion of three units of American Government and three units of American History or the passing of a comprehensive examination on the principles and provisions of the United States Constitution and American History.
C. Evidence that the applicant meets the citizenship requirements established by the State Labor Code.
D. A rating on a professional aptitude test. Since the purpose of the test is to help the candidate and the college determine the needs of the candidate and qualify him for effective teaching, the test must be taken before the individual can enter into the training program. It should be emphasized that this test is not primarily to qualify teacher candidates, but to determine what they need to do to become the best possible teachers.
E. Evidence of the completion with a grade point average of 1.5 of the general and division requirements for the B.S. degree. Where graduate work is required for a credential, a grade point average of 1.75 is required for work taken in the graduate year.
F. A program that includes the specific requirements for the credential for which the candidate is applying.

* In April, 1948, the California State Board of Education approved the college to recommend for this credential. Details on requirements may be obtained from the Registrar.
Specific Requirements

THE SPECIAL SECONDARY CREDENTIAL IN VOCATIONAL AGRICULTURE

An applicant for a California State Polytechnic College recommendation for a Special Secondary Credential in Vocational Agriculture must submit:

I. Verification of A, B, C, D, and E under General Requirements.

II. Three years of farm experience or its equivalent.

III. A four-year college course with a baccalaureate degree in agriculture, including:

- **Quarter Hours**

  A. Plant Production ------------------------------ 30
  B. Animal Husbandry ----------------------------- 30
  C. Agricultural Mechanics ------------------------ 15
  D. Agricultural Economics ------------------------ 15
  E. Eleven quarter hours in education distributed as follows:

    - **Quarter Hours**
      1. Aims, Scopes, and Desirable Outcomes in Secondary Education ------------------------ 3
      2. Educational Psychology ------------------------- 5
      3. Teaching Plans and Techniques ----------------- 3
  F. Electives as approved by adviser.

IV. One year of graduate work* including:

- A. Fifteen quarter hours of education as follows:
  1. Curriculum and Methods in Vocational Agriculture 3
  2. Directed Teaching in Agriculture ------------------ 6
  3. Electives from the following (select minimum of 6):
     - Audio-Visual Aids ----------------------------- 3
     - Secondary School Administration ---------------------- 3
     - History and Philosophy of Education -------------- 3
     - Tests and Measurements in Education -------------- 3
     - Counseling and Guidance in Secondary Schools ___ 3
     - Adult and Continuation Education -------------- 3
     - Educational Sociology ------------------------ 3
     - Seminar in Vocational Education and Guidance ___ 3

- B. Additional courses in education as approved by the major adviser.

THE SPECIAL SECONDARY LIMITED CREDENTIAL IN AGRICULTURE

An applicant for California State Polytechnic College recommendation for the Special Secondary Limited Credential in Agriculture must submit:

I. Verification of A, B, C, D, and E under General Requirements.

* A minimum of 36 quarter units of work approved for graduate credit.
II. A baccalaureate degree with not less than 36 quarter hours in agriculture including:

A. Twelve quarter hours of work in each of the specified subjects to be named on the credential.

California State Polytechnic offers courses sufficient to meet requirements in the fields of:
1. Agricultural inspection
2. Crops production
3. Dairy husbandry and manufacturing
4. Fruit production
5. Ornamental horticulture
6. Animal husbandry
7. Poultry
8. Agricultural Engineering

B. Twenty-three quarter hours of professional work in education including:

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<tr>
<td>1. Aims, Scopes and Desirable Outcomes in Secondary Education</td>
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<tr>
<td>2. Educational Psychology</td>
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<tr>
<td>3. Teaching Plans and Techniques</td>
</tr>
<tr>
<td>4. Directed Teaching in Agriculture</td>
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<tr>
<td>5. Curriculum and Methods in Vocational Agriculture</td>
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<tr>
<td>6. Elective in Education</td>
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</table>

C. Other courses in education, the major, or the minor fields as approved by the adviser.

THE SPECIAL SECONDARY IN PHYSICAL EDUCATION

An applicant for California State Polytechnic College recommendation for the Special Secondary in Physical Education must submit:

I. Verification of A, B, C, D, and E under General Requirements.

II. A baccalaureate degree including:

A. A minimum of 55 units in Health and Physical Education.

B. Twenty-three quarter hours of professional work in education including:

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<th>Quarter Hours</th>
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<tr>
<td>1. Aims, Scopes and Desirable Outcomes in Secondary Education</td>
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<tr>
<td>2. Educational Psychology</td>
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<tr>
<td>3. Teaching Plans and Techniques</td>
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<tr>
<td>4. Directed Teaching in Physical Education</td>
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<tr>
<td>5. Methods of Teaching Health in the Secondary Schools</td>
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<td>6. Electives</td>
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C. Other courses in education, health and physical education, and electives approved by adviser.

On the following page will be found a summary of education courses to satisfy requirements for California State Polytechnic recommendation for teaching credentials. A description of courses in the Department of Education will be found under Education and Psychology.
### SUMMARY OF PROFESSIONAL EDUCATION COURSES OFFERED TO SATISFY REQUIREMENT FOR CALIFORNIA STATE POLYTECHNIC COLLEGE RECOMMENDATIONS FOR TEACHING CREDENTIALS

#### Special Secondary Credential in Vocational Agriculture

*(Five year curriculum. Minimum total, 26 quarter hrs.)*

| Qt. Hrs. |
|-------------------------|-------------------------|
| *1. Aims, Scopes, and Desirable Outcomes in Secondary Education* | 3 |
| *2. Educational Psychology* | 5 |
| *3. Teaching Plans and Techniques* | 3 |
| *4. Elective in Education* | 3 |
| *5. Curriculum and Methods in Vocational Agriculture* | 3 |
| *6. Directed Teaching in Vocational Agriculture* | 6 |
| *7. Adult and Continuation Education* | 3 |

**Total Required Education Courses**: 26

Other courses in education according to candidate's needs.

#### Electives in Education

1. History and Philosophy of Education
2. Secondary School Administration
3. Guidance in Secondary Schools
4. Tests and Measurements in Education
5. Educational Sociology
6. Adult and Continuation Education
7. Seminar in Vocational Education and Guidance

#### Special Secondary Limited Credential in Agriculture

*(Four year curriculum. Minimum total, 23 quarter hours.)*

| Qt. Hrs. |
|-------------------------|-------------------------|
| *1. Aims, Scopes, and Desirable Outcomes in Secondary Education* | 3 |
| *2. Educational Psychology* | 5 |
| *3. Teaching Plans and Techniques* | 3 |
| *4. Elective in Education* | 3 |
| *5. Curriculum and Methods in Vocational Agriculture* | 3 |
| *6. Directed Teaching in Vocational Agriculture* | 6 |

**Total Required Education Courses**: 23

Other courses in professional education and in subject areas to be designated on the credential as approved by the candidate's adviser.

#### Special Secondary in Physical Education

*(Four year curriculum. Minimum total, 23 quarter hours.)*

| Qt. Hrs. |
|-------------------------|-------------------------|
| *1. Aims, Scopes, and Desirable Outcomes in Secondary Education* | 3 |
| *2. Educational Psychology* | 5 |
| *3. Teaching Plans and Techniques* | 3 |
| *4. Elective in Education* | 3 |
| *5. Directed Teaching in Physical Education* | 6 |
| *6. Methods of Teaching Health and Physical Education in the Secondary Schools* | 3 |

**Total Required Education Courses**: 23

Other courses in professional education or major field.

* Required.
AGRICULTURAL TEACHER TRAINING

The college is of particular importance in the training program for prospective agriculture teachers and in-service teachers, and is approved by the State Board of Education for recommending qualified graduates for the special secondary credential in vocational agriculture and the special secondary limited credential in agriculture.

SPECIAL SECONDARY CREDENTIAL IN VOCATIONAL AGRICULTURE

Selection of Teacher Candidates

The graduate or fifth year program, known as the "cadet year," is open to graduates of an agricultural college, who have a Bachelor of Science degree in agriculture and who meet all qualifications. In practice, most of the trainees are selected from two California agricultural colleges and are generally in contact with the teacher training staff during their senior year in college or before. The selection process is very rigid. All are weeded out except those with practical farming experience, good college records, and demonstrated abilities in leadership of farm youth. In common with the practices followed with teacher candidates seeking credentials, prospective vocational agriculture teachers submit their records and applications to the Committee on Teacher Training for evaluation.

Graduate or Fifth-year Program

Following the period of selection, the teacher candidates are enrolled for one year of training on the graduate level, with the specific provision and understanding that there will be a further evaluation and culling at the end of the first month, or at any other time during the training period when it appears that the candidate will probably not make a successful agriculture teacher.

This period is divided roughly into two parts—a period of time spent at California State Polytechnic College adding to technical proficiency and securing professional training through regular classes under the teacher training department and a period of time spent in a selected "critic center" under the careful supervision of an especially chosen, experienced vocational agriculture critic teacher.

It is essential that the vocational agriculture teacher have two basic assets—farming knowledge and teaching ability. In any group of teacher candidates entering the training period, there will be a wide range in their accomplishments and abilities from the individual with considerable teaching ability and perhaps some experience, but lacking farming skills and knowledge; to the individual with ability to perform correct agricultural practices, but lacking expertness in teaching techniques.

Under the California system, the proportion of time spent in skills acquisition and methods training, and the proportion of time spent in practice teaching under actual conditions and careful supervision, are maintained on a flexible basis, so that the individual "teacher-in-preparation" may be assigned a greater time to that type of training program most needed.

California is marked by its diversity of agricultural products, many of which are not produced in other states and its specialization on the individual farm. The vocational agriculture teacher is usually required to have a working knowledge of about twenty-five to thirty important enterprises, calling for a wide variety of experience.

Because of California's unique agricultural situation, it is virtually impossible for even an experienced out-of-state agriculture teacher to enter vocational agriculture teaching in this State with knowledge and skills of sufficient variety to meet the California requirements. The in-service training program, described previously, gives the out-of-state teacher an opportunity to prepare himself to meet California conditions. Without exception, agriculture college graduates who have no teaching experience must avail themselves of the full fifth year cadet training program.
Directed Teaching and Teacher Supervision

“Critic centers” used for directed teaching consist of selected high school vocational agriculture departments located near the teacher training office. The teacher candidate becomes a regular member of the high school faculty, with very limited duties at first, while he principally observes the classroom procedure, lesson planning, and Future Farmer activities of the critic teacher who is his immediate supervisor. Only one or two teacher candidates are placed at a critic center, and their training program is arranged so that they gradually take over the class instruction and actually direct the activities of the department, under the guidance of the critic teacher. They have full charge of class discipline and Future Farmer meetings; they participate in extra-curricular events at the school; they meet parents of boys on home project supervision visits and make other contacts in connection with community affairs.

During the entire year, the teacher candidate is under the supervision of a member of the teacher training staff. This coordinator frequently visits the critic center, observes the practice teaching of the candidate, makes suggestions for improvement, and discusses the progress of the candidate with the critic teacher. Critic centers are located sufficiently close together that the candidates may be called together for frequent evening or Saturday meetings when additional training may be made available.

There is a three-fold approach to the teacher training program at the college. The student enrolls in courses in professional education, agriculture, and through courses, work, and project experience learns the managerial problems of producers. The classes in agriculture are conducted by the regular college agricultural faculty, some of whom are former outstanding high school vocational agriculture teachers who know specifically the training most essential to high school agriculture teaching. Other faculty members, because of their own successful production experience, know the managerial problems of producers first hand.

There are usually 25 to 30 candidates. About half of the group normally does critic teaching while the other half is in resident instruction at the college. At present the equivalent of two and one-half full-time teacher loads is devoted to the teacher training program, in addition to the services of the critic teacher and the other college faculty members who provide particularly the agricultural and managerial training. It may be emphasized that the graduate training program is an extensive one.

SPECIAL SECONDARY LIMITED CREDENTIAL IN AGRICULTURE

Selection of Teacher Candidates

Prospective teachers of nonvocational agriculture must submit their records and applications to the Committee on Teacher Training for evaluation. The selection process takes into consideration agricultural experience, college records, and demonstrated abilities in leadership.

The special secondary limited credential in agriculture entitles the holder to teach those agricultural subjects listed on the credential. Before a subject may be listed on the credential, the applicant must have completed a minimum of 12 quarter hours of work in each of the specified subjects to be named on the credential. For these reasons, the work completed in the agricultural subjects are scrutinized closely by the Committee on Teacher Training.

Directed Teaching and Teacher Supervision

The directed teaching requirement will be met by assigning the candidate teaching responsibilities in his field in one of the agricultural teaching centers. Directed teaching may be completed in fall, winter, or spring quarters of the senior year. Assignment to teaching centers will depend on distribution of a candidate’s load over the senior year, and activity within the teaching center.
The teacher candidate will be under the direction and observation of the "critic teacher" in the teaching center and the Committee on Teacher Education of California State Polytechnic College. Location of teaching centers has been arranged in high schools in areas close to the college to facilitate close and careful supervision of teacher candidates.

Physical Education and Hygiene Teacher Training

Requirements for the special secondary credential in physical education may be completed in a four-year program. Athletic facilities, competitive programs, and intramural activities provide excellent opportunities for the prospective teacher of physical education and hygiene. Preparation of applicants for the special secondary credential in physical education has been approved by the State Board of Education.

SPECIAL SECONDARY CREDENTIAL IN PHYSICAL EDUCATION

Selection of Teacher Candidates

Prospective teachers of health and physical education must submit their records and applications to the Committee on Teacher Training for evaluation. The selection process takes into consideration the scholastic and athletic records, and demonstrated ability in leadership, coaching and management of physical education and health programs. The individual's activity record is scrutinized very closely, because physical education and health teachers as a rule take a very active part not only in the physical education but also in the athletic program of high schools in California.

Directed Teaching and Teacher Supervision

The directed teaching requirement will be met by assigning the teacher candidate responsibilities in the field of physical education and health in one of the high school teaching centers. Supervision and training demanded by the comprehensive physical education intramural and competitive athletic program at the college provides many additional opportunities for teaching and supervisory experience previous to assignment to high school teacher training centers. Directed teaching may be completed during fall, winter, or spring quarters of the senior year.

The teacher candidate will be under the direct supervision and observation of the critic physical education and hygiene teacher in the teaching center, and the Committee on Teacher Education of California State Polytechnic College. The Education Department has made plans that include the enlistment of director of health and physical education and other members of the college staff to assist in the supervision of the directed teaching.
STUDENT WELFARE AND CAMPUS LIFE

THE ALUMNI ASSOCIATION

Efforts of alumni of California State Polytechnic College to form a functioning association of graduates and former students have been going forward for several years. Homecoming programs have been held in both fall and spring. In the spring of 1940, alumni voted a permanent fall Homecoming.

Previous catalogs have listed the directors of each of the 30 districts into which the State is divided according to the alumni association constitution. Because of frequent changes in the personnel of the district directors, and vacancies existing in a number of districts, this plan is not continued this year.

The districts of the State are:

District 1. Lassen, Modoc, Tehama, Siskiyou Counties.
District 2. Humboldt, Del Norte Counties.
District 3. Mendocino, Lake Counties.
District 4. Shasta, Trinity, Plumas Counties.
District 5. Glenn, Colusa Counties.
District 6. Sutter, Yuba, Nevada, Butte, Placer, Sierra Counties.
District 7. Napa, Yolo Counties.
District 8. Sonoma, Marin Counties.
District 9. San Francisco County.
District 10. Solano County.
District 11. Alameda, Contra Costa Counties.
District 14. San Joaquin County.
District 15. Stanislaus County.
District 16. Santa Cruz County.
District 17. Merced, Madera Counties.
District 18. Monterey, San Benito Counties.
District 19. Kings County.
District 20. San Luis Obispo County.
District 21. Fresno, Calaveras, Tuolumne, Mariposa Counties.
District 22. Santa Barbara, Ventura Counties.
District 23. Tulare County.
District 24. Kern County.
District 25. Orange County.
District 26. San Bernardino County.
District 27. Riverside County.
District 28. Los Angeles, Inyo, Mono Counties.
District 29. Imperial County.
District 30. San Diego County.

HEALTH AND MEDICAL SERVICE

Each student enrolled pays a medical fee, which is $3.00 per quarter. The service provided consists of a physical examination, all minor and major surgery free, not including the service of any specialists. In addition, the service includes visits to student's homes and first aid treatment within a radius of five miles of the campus. Diseases of a chronic nature which the
student contracted before entering school are not covered. The physician
and surgeon is on the campus two hours daily, five days a week in the
infirmary. Students may consult him at his office any time by appointment.

The college maintains a well-equipped infirmary which includes a
12-bed ward, and four individual rooms. A registered nurse is on duty at
all times. Students are generally required to pay fifty cents per day while
they are in the infirmary. In the event that special hospitalization is
required, students may enter any one of three hospitals located in San Luis
Obispo. The student, in turn, must pay for any hospitalization which is
required.

Registration is not complete until a student has completed the physical
examination satisfactorily.

PLACEMENT

The primary objective of all instruction at California State Poly-
technic College is placement, either in a position as an employee, or in an
agricultural or industrial enterprise owned and operated by the graduate.
Employment in teaching is now receiving greater emphasis because of an
increased demand for teachers.

The placement function is the joint responsibility of department
heads and the placement secretary, whose office falls under the direction of
the Assistant Dean in Charge of Admissions, Guidance, and Placement. All phases of the student's preparation and experience are considered by
the placement secretary as the basis for making effective placement.

No guarantee of placement is made to any student, but a sincere effort
is made to find employment for everyone who shows himself worthy of this
service.

The institution has been successful for a number of years in placing
all or virtually all of its recommended graduates. Not only is placement
attempted by the college for each graduate, but men so placed are contacted
often. An effort is made to see whether both employer and employee are
satisfied, and whether advancement is being made. Better positions in other
firms are often found for students who have been doing satisfactory work
for a sufficient period to justify advancement.

CAMPUS EMPLOYMENT

In addition to the opportunities for students to earn money through
project activities to assist them in meeting expenses, California State Poly-
technic College has established a policy of giving a maximum number of
students experience by employing them to operate the entire campus and
farm. The average earning per student is several times as great as in the
typical college where adults are employed full-time to do a large part of
the kind of work done by students here. During normal years, California
State Polytechnic College employs very few adult gardeners or janitors,
no dining hall help except cooks, and only two farm foremen who work
with students in maintenance, repair, and farm operation of equipment.

Not only does the college make every effort to place students in
employment both on and off the campus, but it seeks to correlate this out-
side work with the student's major course of study. Students of electrical
industries aid in operation of the power plant. Majors in the field of dair-
ying feed and care for the college's dairy herd, milk the cows, and operate
the milk plant. Students in ornamental horticulture maintain and improve
the lawns, trees, and shrubbery.

OFF-CAMPUS EMPLOYMENT

The college works in cooperation with the California State Employ-
ment Service and the local towns-people in finding employment for students
working their way through school. Usually this employment consists of odd
jobs, although some steady part time work is obtained.
Student Welfare

CAMPUS ORGANIZATIONS

Clubs and organizations on the San Luis Obispo campus cover all departments and activities, and the opportunity exists for every student to take an active part in club life. The presidents of the various social clubs and societies form an interclub council which has direct representation in student government. There are nearly 20 departmental clubs in addition to more than 10 social clubs and societies. These numbers do not include the dormitory clubs for students residing in dormitories, which number nearly 20.

STUDENT BODY GOVERNMENT

Any enrolled student of the California State Polytechnic College is eligible for active membership in the student body association, known as the "Associated Students of the California State Polytechnic College," at San Luis Obispo. The government and direction of the Associated Students and the control of its property is vested in the Student Affairs Council, members of which are selected according to regulations established in the student body constitution.

Benefits and privileges to members of the Associated Students include admission to all student body sponsored activities, such as athletic contests, music activities, and social functions, free or at reduced rates as prescribed by the Student Affairs Council; subscription to the weekly publication, El Mustang, and one copy each year of the yearly publication, El Rodeo, free or at a reduced rate as prescribed by the Student Affairs Council.

Dues for membership in the Associated Students are prescribed by the Student Affairs Council, subject to approval of a majority vote of the Associated Students.

ATHLETICS

Intercollegiate competition centers primarily around the activity of the California Collegiate Athletic Association; this college is a member along with College of Pacific, Fresno State College, Santa Barbara College of the University of California, San Diego State College, and San Jose State College. Conference competition is maintained in football, basketball, baseball, track, boxing, wrestling, gymnastics, fencing, swimming, badminton, tennis, and golf. There is a high level of competition in all sports. It is possible to earn a major letter award in any sport. Freshman teams are maintained in football, basketball, and baseball.

Year-around competition is offered in the intramural sports program and is open to all interested students or faculty; there are numerous teams entered in all sports. Medals are awarded winners in touch football, track, horseshoes, basketball, volleyball, swimming, boxing, wrestling, badminton, softball, tennis, and golf.

The Department of Health and Physical Education offers for all physical activities designed to provide a sound program of recreation, education in physical skills, and the give-and-take of games. Varsity teams in 12 intercollegiate sports offer opportunity for the more skilled. There are limited freshman schedules in three sports. Intramural teams provide year around competition in a dozen sports at an easier level of play to all who wish to enter. Instruction and practice in physical skills are provided through regular physical education classes for freshmen and sophomores. Health instruction is given all freshmen through a two-unit course in hygiene. A medical examination is required of all entering students.

A four-year degree curriculum leading to an authorized California State teaching credential on graduation is provided for students majoring in health and physical education.
PUBLICATIONS

Publications of the student body at the California State Polytechnic College, San Luis Obispo, are not only written and edited by students, but are also printed in the college's own print shop as laboratory work for students majoring in printing. Editorial and photographic work on the publications is done by students of the journalism classes.

*El Mustang*—the official publication of the associated students of the San Luis Obispo campus, published once each week during the school year.

*El Rodeo*—the yearbook of the San Luis Obispo campus.

Other publications include a Poly Royal pictorial, Freshman Handbook, the Mustang Roundup, a monthly magazine, and other miscellaneous publications. The California Future Farmer magazine, a monthly magazine supported by and mailed to the 10,000 Future Farmers of America members in nearly 200 California high schools, is published on the campus.

POLY ROYAL

Each year, during the spring, the California State Polytechnic College, San Luis Obispo, has an open-house exhibition and show conducted by the associated students. This event is known as the Poly Royal, "a country fair on a college campus." Its purpose is to display the work accomplished during the year by the students, particularly student-owned projects. Each department of the college prepares its own display, and in the agricultural division the show is on a competitive basis within the respective departments.

Besides the shows and exhibits, there are many entertainment features. Each year, the athletic department participates in either baseball or track with selected members of the California Collegiate Athletic Association. There are contests of interest to the general public, among which is an adult organization livestock judging contest, open to a team of three members from any recognized farm organization. One of the main attractions is the Poly Royal Rodeo in which members of the student body compete in the usual rodeo events.

California State Polytechnic College, being noncoeducational, borrows a queen each year from some other collegiate institution. This queen and her attendants are treated royally during the Poly Royal, and many social affairs honor them. In the past, queens have been provided by San Francisco State College, Fresno State College, San Jose State College, San Diego State College, and Chico State College.
REGULATIONS

ELIGIBILITY FOR INTERCOLLEGIATE ATHLETICS

Eligibility matters are under the jurisdiction of a faculty committee. In general, regulations are determined by conference rule. Salient points are noted below.

1. Competition is open to regularly enrolled students carrying at least 12 units and passing at least 10 units of college work.

2. Ten or more units and at least five grade points must have been earned the last quarter of college residence preceding competition.

3. Only three years of varsity competition are allowed.

4. Freshmen and transfer students from four-year colleges must have a year of residence to be eligible. Thirty units complete this requirement for freshmen in football, basketball, and track; one quarter's residence for freshmen in all other sports.

5. Junior college transfers are immediately eligible if previous credits satisfy requirements of the freshman rule. Two years of junior college competition are allowed, plus the three years of varsity competition.

CHANGE OF CURRICULA

The objective of all training at California State Polytechnic College is to prepare the student for useful employment and for useful citizenship. Our unique approach makes it mandatory for a student to carry work within his major as a freshman. By carrying this major work early in his program, it is much easier for a student to decide whether or not he enjoys and is fitted for the major he selected. Students who find that they are in a curriculum which does not provide the kind of training for which they have the greatest aptitude are encouraged to transfer to another curriculum as soon as the condition becomes apparent, rather than attempt to overcome an insurmountable handicap.

Transfer from one curriculum to another does not in any way change a student's academic standing. If an individual is on probation in one curriculum and decides to change to another, he will still be on probation under the new choice.

CHANGE OF PROGRAM

A period of 15 days of instruction, starting with the first day that classes are held, at the beginning of each quarter will be allowed for program changes.

After this 15-day period, no courses may be added to a student's program unless a request to do so is made by an instructor.

After the 15-day period for making program changes has ended, students who desire to withdraw from a course may do so by obtaining a "Permit to Withdraw from Courses" from the Recorder's Office. This permit must be properly filled out by the student and signed by the instructor. Before signing, the instructor will indicate whether the student is to receive a grade of F (Failure) or W (Withdrawn) for the course. The grade of W indicates that the student is passing (Grade A to D) in the course at the time of withdrawal. The grade of F indicates that the student has done failing work up to the time of withdrawal.

Public Law 16 veterans should contact their Veterans Administration Training Officer before making any changes in their programs.
CLASS ATTENDANCE

Students are expected to be regular in attendance. It is the only way in which the quantity and quality of work may be kept high. Absence from classes is regarded as a very serious offense, and no excuses for work missed are provided.

An excused absence can be allowed only by the instructor in charge of the class upon consideration of the evidence justifying the absence presented by the student. An excused absence merely gives the individual who missed the class an opportunity to make up the work and does in no way excuse him from the work required.

GRADING SYSTEM

The following grading system is in effect:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Superior</td>
</tr>
<tr>
<td>B</td>
<td>Better than average</td>
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<tr>
<td>C</td>
<td>Average</td>
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<tr>
<td>D</td>
<td>Barely passing</td>
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<tr>
<td>E</td>
<td>Incomplete</td>
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<tr>
<td>F</td>
<td>Failure</td>
</tr>
<tr>
<td>W</td>
<td>Withdrew from course without failure</td>
</tr>
<tr>
<td>NR</td>
<td>No report received from instructor</td>
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</table>

Scholarship points are assigned to the various grades as follows:

- For each unit of Grade A—3 points
- For each unit of Grade B—2 points
- For each unit of Grade C—1 point
- For each unit of Grade D—0 points
- For each unit of Grade E—0 points
- For each unit of Grade F—1 point minus

Passing grades are marked by A, B, C, D. Grade E (incomplete) indicates a record below passing. It can be made up or completed without repeating the course in class by re-examination, or completing all unfinished work, or both, as the instructor may determine. The removal of Grade E entitles the student to the grade points he may have lost by the condition or failure, and in addition the number of grade points to which he may be entitled for his passing grade.

Grade E may be given to a student for the following reasons:

1. Passing in class work, but final examination not taken.
2. Passing in class work completed and in final examination, but some assigned work not completed.

If a grade of E is not made up to a passing grade during the next time the course is regularly offered, it will automatically revert to an F grade.

Grade F indicates a failure. It is a record so poor that it can be raised to a passing grade only by repetition of the course. The grade of F shall remain on the permanent record, but the accompanying units attempted and the grade points lost will be disregarded if the course is subsequently retaken and passed.

Students may obtain grades by leaving self-addressed, stamped envelopes in the recorder's office at the end of the quarter, or by calling for them in that office.
MINIMUM GRADE REQUIREMENTS

Any student who fails to maintain a C average for any quarter (that is, does not have as many grade points as units undertaken) will be placed on probation for the succeeding quarter. Students on probation may have their activities curtailed until such time as their work is brought up to a C average.

Any student will become subject to dismissal from the California State Polytechnic College if he fails to maintain a C average when on probation, or if his record for any quarter falls below a D average.

Students doing failing work in any course will receive an unsatisfactory grade report at the six-week mid-term period and will be called before the Grade Standing Committee for counseling. Students who receive D or E grade notices at the end of the six-week mid-term period will be sent notices urging that they contact their instructor regarding their low standing.

Students who have been dismissed because of low scholarship will not be admitted until at least one full quarter has elapsed and then only under certain conditions. These students must make application for readmission in writing directly to the president of the college. In applying for readmission, students must list reasons why they should be readmitted and present records of courses attempted or activities directed toward improving their chances for scholastic success. Students readmitted will enter on academic probation. See also under “Graduation Requirements.”

PERSONAL CONDUCT

Students whose personal conduct is unsatisfactory may be disqualified from certain activities or dismissed by the administration at any time. Unsatisfactory dismissals are issued to all students dismissed for misconduct, and a notation to this effect becomes a part of the students’ permanent record.

All applications for readmission must be in writing and directed to the president of the college. Readmission will not be allowed sooner than one full quarter after date of dismissal. This readmission application must be accompanied by evidence of seriousness of purpose toward maintaining a satisfactory record of conduct. Individuals readmitted will be placed on probation pending proof of seriousness of purpose.

MAXIMUM AND MINIMUM LOAD

All students except those registered as “special” must be classified in one of the major departments of the college.

Students except those classified as “special” must register for not less than 12 or more than 20 quarter units of work; the only exceptions are made on the joint recommendation of the head of the department, the head of the division, and the registrar.

Minimum load requirements may be waived because of poor health or when only a few credits are needed for graduation. Maximum load requirements may be waived only on presentation of evidence of ability to carry successfully such a group of courses.

Veterans enrolled under Public Law 346 must enroll for a minimum of 12 quarter units to receive full subsistence pay. Veterans enrolled under Public Law 16 must enroll according to their assigned “occupational objective” and cannot change their courses or major unless permission is received from their Veterans Administration Training Officer.
WAR EMERGENCY CHANGES

Students who registered during the war emergency period, September, 1940 to September, 1946, will be allowed to graduate under the following total credit requirements, if college, division, and department requirements are met:

- B.S. Degree: 194 quarter units
- Technical Certificate: 145 quarter units
- Vocational Certificate: 97 quarter units

CREDIT FOR MILITARY SERVICE

1. Nine quarter units of elective credit will be allowed toward graduation to any student submitting evidence of satisfactory completion of 15 weeks of training in the military service of the United States.

2. In addition to the nine quarter units under 1, 13½ quarter units of elective credit will be allowed toward graduation to any student submitting evidence that the student has received a commission in the Army, Navy, Coast Guard or Marine Corps. Maximum total credit possible toward graduation for military service is 22½ quarter units.

3. In allowing for credit for in-service training, California State Polytechnic College is following the recommendations of the American Council on Education in terms of units allowed and subject matter covered. Military service credit may be used to meet the total requirements of five quarter units for Physical Education and Health Education. Units allowed for in-service training will be awarded a C grade in cases where no record showing the actual grade earned can be presented.

COLLEGE RATING

Beginning with the fall quarter of 1940-41 California State Polytechnic College became a four-year college with authority to grant Bachelor of Science degrees to students completing four-year curricula. The college continued under authorization granted in 1932 to award vocational and technical certificates to students completing the two-year and three-year curricula.

The authority to grant the Bachelor of Science degree was passed by the State Board of Education, whose authority to take such action has been upheld by the Attorney General of the State of California.

California State Polytechnic College has been granted regular reaccreditation by the State Board of Education to give the training and to make the recommendation for the Special Secondary Credential in Vocational Agriculture Education, and the Special Secondary Limited Credential in Agriculture. The State Board of Education also has granted the California State Polytechnic College temporary accreditation for the Special Secondary Credential in Physical Education.

TRANSFER TO OTHER INSTITUTIONS

The authority of the California State Polytechnic College to grant the Bachelor of Science degree is too recent to permit full determination of the transfer status.

In general, it is recommended that students consider very carefully the course they wish to pursue, and enroll in the institution from which they ultimately desire to be graduated, rather than transfer after a year or two. This is recommended because the years in which various subjects are offered at California State Polytechnic College, and the entire graduation pattern, differ from the undergraduate program at most other colleges.
COURSE NUMBERING SYSTEM

The numbering system used is a three digit system. Courses are grouped first into number series indicating the college level at which they are taught as follows:

1-9 — Preparatory Courses  
10-99 — Technical Courses  
100-199 — Freshman Courses  
200-299 — Sophomore Courses  
300-399 — Junior Courses  
400-499 — Senior Courses  
500-599 — Graduate Courses  
600-699 — Professional Courses

The first digit indicates the level or year in which the courses are taught.

The second digit indicates the type of course with numbers assigned as follows:

0 or 1 — Lecture Courses  
2 or 3 — Courses involving both lecture and laboratory  
4 or 5 — Courses composed entirely of laboratory work  
6 or 7 — Undergraduate thesis or seminar  
8 or 9 — Graduate thesis or seminar

The third digit indicates the quarter in which the course is normally taught.

1, 4 or 7 — Fall Quarter Courses  
2, 5 or 8 — Winter Quarter Courses  
3, 6 or 9 — Spring Quarter Courses

Numbers allowed to technical courses will be divided between the three years as follows. Because only two numbers are used, the first digit will indicate the year in which the course is given, and the second digit will indicate the quarter.

11-39 — Freshman  
41-69 — Sophomore  
71-99 — Junior

NOTE: Courses numbered 1-99 carry no credit toward meeting degree requirements in any of the curricula.

Examples—

1. Eng 101, 102, 103 — A freshman English lecture series with one course offered in each of the quarters. Numbers Eng 104, 105, 106 or Eng 107, 108, 109, or Eng 111, 112, 113, or Eng 114, 115, 116, or Eng 117, 118, 119 could be used to indicate additional series of lecture courses offered in series in this field in the freshman year.

2. AH 121, 122, 123 — A freshman animal husbandry series with one course offered in each quarter including both lecture and laboratory—Numbers AH 124, 125, 126, or AH 127, 128, 129, or AH 131, 132, 133, or AH 134, 135, 136, or AH 137, 138, 139 could be used to indicate additional series of animal husbandry lecture and laboratory combination courses provided in the freshman year.

3. Aero 141, 142, 143 — A freshman laboratory or shop aero series with one course offered in each of the three quarters. Numbers Aero 144, 145, 146, or Aero 147, 148, 149, or Aero 151, 152, 153, or Aero 154, 155,
156, or Aero 157, 158, 159 could be used to indicate additional freshman series of aero laboratory courses.

4. Eng 1-2-3—A freshman series of English preparatory courses. Numbers Eng 4, 5, 6 or Eng 7, 8, 9 could also be used to indicate other freshman preparatory series.

**SYMBOLS**

The following symbols are used to indicate departments in which the courses are offered:

- Aero—Aeronautical Engineering
- AC—Air Conditioning and Refrigeration Engineering
- AgE—Agricultural Engineering
- AH—Animal Husbandry
- AgI—Agricultural Inspection
- Arch—Architectural Engineering
- Art—Art
- BS—Biological Science
- CF—Citrus Fruit Production
- CP—Crops Production
- DH—Dairy Husbandry
- DM—Dairy Manufacturing
- Ec—Economics
- Ed—Education
- EE—Electrical Engineering
- EI—Electrical Industries
- EL—Electronic and Radio Engineering
- Eng—English
- FP—Deciduous Fruit Production
- Hist—History
- Jour—Journalism
- M—Maintenance Engineering
- Math—Mathematics
- ME—Mechanical Engineering
- Mu—Music
- OH—Ornamental Horticulture
- PE—Physical Education
- Pol Sc—Political Science
- Poul—Poultry
- Pr—Printing
- PSc—Physical Science
- Psy—Psychology
- SSC—Social Science
- SS—Soil Science
- TC—Truck Crops
- VS—Veterinary Science
THE AGRICULTURAL DIVISION

The various curricula in the agricultural division are outlined and the courses described on the following pages. Each curriculum in the division follows a common pattern of related courses and a specific pattern of requirements within the major.

These curricula are so arranged that a student beginning as a freshman carries a large portion of major courses. This approach makes it possible for a student to determine in a rather short time whether or not he is fitted for the curriculum he has selected.

THE DEGREE CURRICULA IN AGRICULTURE

The degree curricula in agriculture include the following: Animal Husbandry, Agricultural Inspection, Agricultural Engineering and Mechanics, Crops Production, Truck Crops Production, Fruit Production, Dairy Husbandry, Dairy Manufacturing, Ornamental Horticulture, Poultry Husbandry.

Students wishing to major in Agricultural Inspection or Citrus Fruit Production must complete the first two years of their program in attendance at the Voorhis Unit at San Dimas, California. Those interested in subtropical horticulture should spend the first two years in this major at the Voorhis Unit, San Dimas.

Electives in the degree curricula are few in number in the freshman and sophomore years and are increased in the junior and senior year. Electives may be chosen from among other agricultural fields, or they may be selected from courses listed under the Engineering or Science and Humanities Division.

Admission to the agricultural division demands high school graduation, but does not require specific pattern requirements. It is to prospective students' advantage, however, to enroll in the agricultural division with a good high school background in both physical and biological science.

TECHNICAL CURRICULA

In each of the agricultural majors, the three-year technical curriculum is provided. The essential differences between the technical curriculum and the degree curriculum are: First, the technical curriculum may be completed in three years; second, although the course requirements under the major selected are very similar, the technical student is required to take less work in the related fields and is allowed more elective time for specialization or for use at his discretion in preparing himself in his major.

These curricula have two distinctive functions. They make it possible for an individual to concentrate his efforts and activity in one of the agricultural majors and complete the work in minimum time. They also serve the needs of students who are not interested in the more advanced work of the degree curricula.

VOCATIONAL CURRICULA

In each of the agricultural majors a vocational certificate is awarded to individuals who satisfactorily complete the two-year vocational program. The vocational curricula are not tabulated separately, but in all cases in the agricultural division consist of the first two years work outlined under the technical curricula.
THE ENGINEERING AND INDUSTRIAL DIVISION

The various curricula in the engineering and industrial division are outlined and the courses described on the following pages. Each curriculum in the division follows a common pattern of related courses and a similar pattern of requirements within the major.

THE DEGREE CURRICULA IN ENGINEERING

Degree curricula are provided in the following engineering fields: Architectural Engineering, Aeronautical Maintenance and Operations Engineering, Air Conditioning and Refrigeration Engineering, Electrical Engineering, Electronic and Radio Engineering, Mechanical Engineering, Maintenance Engineering, and Printing.

Admission into the degree curricula in all engineering majors except Printing demands that, in addition to meeting the general college requirements for entrance, a student show proficiency in both mathematics and physics. His record on the placement examinations in these two subjects must be high enough to allow him to enroll in college physics and in college algebra as a freshman, before entrance into any of the engineering degree curricula. Students intending to register in this division will find it to their advantage to include in their high school courses one year of algebra, one year of geometry, and a half year of trigonometry. High school physics and chemistry are also desirable.

If the results of placement examinations indicate that the student is lacking in prerequisites to engineering, it will be necessary for him to pursue one of the two following programs, unless he chooses to enroll in Printing:

1. He may choose to spend one year in college in an engineering preparatory course that will include mathematics and physics and other related subjects but no major work, or,

2. He may choose to enroll in a technical curriculum.

TECHNICAL CURRICULA

In the engineering division, three-year technical curricula are offered in all of the majors. These technical curricula have been developed to serve the individual who is less interested in the more theoretical engineering work and to provide for those who must prepare themselves for skilled positions in the industrial fields in a comparatively short time.

Technical courses in major work, although often carrying the same title as courses under the degree curricula, are taught separately and from an approach which stresses the most practical application possible.

TWO-YEAR TECHNICAL CURRICULA

In a number of the industrial fields, vocational certificates are provided individuals who successfully complete the first two years of the technical program. These certificates have been developed because students completing two years of work in a number of majors in the engineering and industrial division are qualified to handle assignments in industrial fields.

The two-year curricula meet the needs of men who must train themselves in a rather short time for specific places in industry. It is possible for an individual to have completed the two-year technical program and continue one more year to secure the technical certificate which is granted
at the end of the third year. Students who have completed the three-year technical program, however, may not secure a Bachelor of Science degree by merely going one year beyond the three-year technical course. Men with degree aspirations must complete all related and major work under degree curricula listed as required. Technical courses in the major field and in the related fields will not substitute for degree courses in these same fields.
THE SCIENCE AND HUMANITIES DIVISION

Although California State Polytechnic College prepares students primarily in the fields of agriculture and engineering, it is recognized that vocational proficiency is only one aspect of complete living. Men also need to be prepared to enjoy a richer and more useful personal, home, and community life.

In the Division of Science and Humanities have been grouped for administrative purposes those subjects which are related to all aspects of living: vocational, civic, recreational, and aesthetic. It is the aim of the college to make instruction in these areas functional; therefore, there is as much emphasis as possible on the application of theory to the work in the Agriculture and Engineering Divisions.


In the Education, English, and Music Departments, no departmental majors for meeting graduation requirements have been established at the present time. Selected courses in the Engineering and Agricultural Divisions, such as landscape design and architecture, may be used for meeting graduation requirements in the Science and Humanities Division.

All candidates for the Bachelor of Science degree in science and humanities, with majors in Health and Physical Education, Life Science, Mathematics, Physical Science, or Social Science shall complete:

I. The general requirements for graduation.

II. The following division requirements:
   2 hours of Personal Development
   9 hours of Literature
   9 hours of Principles of Economics
   6 hours of College Mathematics
   5 hours of General Psychology
   6 hours of General Biology or the equivalent
   3 hours of Background of Modern Affairs or State and Local Government

III. Departmental requirements under one of the Science and Humanities Departments.
VOORHIS UNIT
California State Polytechnic College
SAN DIMAS, CALIFORNIA

FOREWORD

The Voorhis Unit of the California State Polytechnic College is ideally situated in the heart of the citrus and truck crop producing area of Southern California to offer instruction in Agricultural Inspection, Citrus Fruit Production, and Ornamental Horticulture. The same educational philosophy, pattern of courses, and requirements of the Agricultural Division of California State Polytechnic College at San Luis Obispo are in effect at the Voorhis Unit. Students enrolling in the three-year technical or two-year vocational curricula may complete all requirements leading to graduation certificates in these curricula at the Voorhis Unit, but students seeking the Bachelor of Science degree normally complete only the first two years at the Voorhis Unit and must transfer to the San Luis Obispo campus to complete degree requirements.

HISTORY

The Voorhis Unit became a part of the California State Polytechnic College in 1938 when this completely-equipped school and farm near San Dimas was deeded to the college by Charles B. Voorhis of Pasadena, and his son, former Congressman Jerry Voorhis. The school had previously been conducted by Voorhis and his son as a school for under-privileged boys. This branch consists of 157 acres, of which 25 acres are suitable for farming operations and 15 of that is now in oranges. Three acres are planted to avocados of several varieties, and another three acres are in a variety of deciduous fruits and walnut trees. A few acres are available for truck crops.

This branch institution representing an investment of more than a million dollars was put into operation by the California State Polytechnic College immediately after it was deeded to the college as a citriculture, horticulture and agricultural inspection branch of the main institution. For three years during the war regular instruction was not offered at the Voorhis Unit, but all facilities, fruit trees, etc., were operated on a production basis. The summer of 1946 was spent in preparing the physical facilities, including grounds, buildings, etc., for re-opening of the branch in September, 1946.
GENERAL INFORMATION

BUILDINGS

Administration-Classroom Building

The center of campus activities is in the Administration group of buildings, which are joined by corridors. This unit houses the administrative offices, all major class-rooms, the library, museum, photographic dark room, and laboratories. One entire wing is devoted to student life and activities, and contains the dining rooms, kitchen, campus store, and social room. A second story is used for dormitory purposes.

New Classroom Building

A building approximately 10,000 square feet in size recently has been erected to provide classroom space for another 150 persons.

Dormitories

All dormitories are of the cottage type, housing from 20 to 30 students each. They are: St. James; Sunset cottage; Rose cottage; Smith hall; and Uncle Charley's and Aunt Nell's, named after the principal donor and his wife, Mr. and Mrs. Charles B. Voorhis. Twenty-one temporary buildings were completed in 1947 to accommodate 120 single men. A trailer village for the use of married veterans and their families is conveniently located on the campus. Five buildings providing a total of forty-four family units for married students and their families were completed on the campus during the summer of 1948.

Shop

One large building serves as the automotive service shop and the agricultural mechanics laboratory building. It is situated in the heart of the orchard area, making it convenient for tractors, tillage, and spraying implements.

Chapel

One of the most beautiful chapels in Southern California, built to provide a view, from the interior, of the snow-capped Sierra Madres, is near the center of the campus.

Pool and Athletic Field

A splendid outdoor swimming pool is located in the center of the campus. Nearby are the athletic field, tennis and basketball courts, and athletic field house.
AGRICULTURAL PROJECT FACILITIES AT SAN DIMAS

At San Dimas, the project work is carried on in a somewhat different manner than from that at San Luis Obispo. Because of the nature of the enterprises in the plant field, the work is concentrated into group projects—that is, the fruit production students handle the entire grove of citrus as a unit. The cultivation, irrigation, and survey work is done entirely by the student group, plus a major portion of the harvesting and pest control. The same procedure is followed by the students majoring in ornamental horticulture and inspection work, in relation to various areas on the school property.

The facilities include 15 acres of bearing oranges and lemons and three acres of avocados, available for student practice work and management. The school is located in a thermal belt, making it possible to find ample field practice in deciduous fruit production from the campus planting and in neighboring orchards.

In addition to the fruit acreage, approximately three acres are available for growing vegetable crops. This offers an opportunity for students to secure practical experience in the growing, insect and disease control, and harvesting of these crops.

Besides this type of project work, advanced students are encouraged to secure, and are assisted in securing, off-campus work closely related to the field of their major interest, such as: orchard mapping and grading, tree treatment, orchard pruning, scale survey work, etc. Many ranches near the school call upon students for work in pest control, fertilizer application, orchard heating, and scale survey.

Climatic conditions at the Voorhis Unit, which make it admirably located for fruit production, are equally advantageous in the ornamental horticulture field. The Voorhis Unit has ample propagation facilities for landscape work and affords extensive opportunity for supervised gardening on the campus and for field trips to major propagation areas and estates.

Facilities are provided at the Voorhis Unit for training men in the common practices and skills and the essential techniques in agricultural inspection. Equipment includes that used in fruit testing; plant, insect and disease specimens of importance in the major fruit and crops production areas of California, as well as laboratory samples and specimens of diseases and pests which might be introduced from other states and nations; laboratory equipment for microscopic analysis; a small apiary for all types of bee work; farm equipment and supplies used in weed and rodent control; a completely-equipped soils laboratory; and a complete library covering all subjects taught. Pest control equipment and material is available. The curricula were established after each course and combination had received the approval of the State Department of Agriculture for its effectiveness in training inspectors.

In addition to the inspection facilities on the campus, the whole state provides a training ground. Sophomore and junior students conduct field problems in inspection and pest control. Graduation requirements include actual work in commercial packing houses and at inspection points. Field trips are made to shipping points, picking, and propagation districts, in addition to the campus area.
ADMISSION, REGISTRATION, AND GRADUATION

Admission requirements, registration procedure, admission with advanced standing, credit by special examination, scholarships, loan funds, general graduation requirements, graduation requirements for the Agricultural Division, and teacher credential requirements are the same for the Voorhis Unit as for the San Luis Obispo campus of the college. Complete information on these subjects will be found under the ADMISSION, REGISTRATION, AND GRADUATION section of the catalog.

FEES AND DEPOSITS

State Fees and Deposits

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<td>Breakage Deposit (year)</td>
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<td>(all deposits refunded at end of year if there are no charges against student)</td>
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</table>

Other Fees and Deposits

*Subsistence Deposit (all students, year)            $10.00
(unused portion refundable when student leaves school)
Associated Student Card Fee (three quarters)         15.00
Medical Fee (per quarter)                            3.00
Graduation Fee                                       6.00
(Must be paid at time application for graduation is submitted)

NOTE: Fees for the summer quarters are identical to the fees for the other quarters.

LIVING EXPENSES

Room, per month (subject to change)                   $10.00
(Must be paid quarterly in advance; students are required to furnish bed linen and blankets)
Board, per month (subject to change)                  40.00
(Must be paid in advance)

Example of what the average student, not enrolled under Public Law 16, 346, or the California Veterans Educational Institute, pays at time of registration:

<table>
<thead>
<tr>
<th>Expense</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subsistence Deposit</td>
<td>$10.00</td>
</tr>
<tr>
<td>Breakage Deposit</td>
<td>10.00</td>
</tr>
<tr>
<td>Associated Student Card (per year)</td>
<td>15.00</td>
</tr>
<tr>
<td>Medical Fee (per quarter)</td>
<td>3.00</td>
</tr>
<tr>
<td>Laboratory and Course Fee</td>
<td>5.00</td>
</tr>
<tr>
<td>Room Rent (per quarter)</td>
<td>30.00</td>
</tr>
<tr>
<td>Board (per month)</td>
<td>40.00</td>
</tr>
<tr>
<td>Books and Supplies (estimated)</td>
<td>30.00</td>
</tr>
</tbody>
</table>

$143.00

* Will also serve as room deposit. Room assignments will be made in the order in which deposits are received.
Example of what the average student enrolled under Public Law 16, 346, or the California Veterans Educational Institute pays at time of registration:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subsistence Deposit</td>
<td>$10.00</td>
</tr>
<tr>
<td>Associated Student Card (per year)</td>
<td>15.00</td>
</tr>
<tr>
<td>Medical Fee (per quarter)</td>
<td>3.00</td>
</tr>
<tr>
<td>Room Rent (per quarter)</td>
<td>30.00</td>
</tr>
<tr>
<td>Board (per month)</td>
<td>40.00</td>
</tr>
<tr>
<td>*Books and Supplies</td>
<td>$98.00</td>
</tr>
</tbody>
</table>

* If trainees have a Veterans Administration Letter of Entitlement when they register, books and supplies will be furnished. If they do not have the Letter of Entitlement, the trainee must pay for books and supplies until the time the letter is presented. There will be a refund made to veteran when the letter is presented.
REGULATIONS

With the exception that the Voorhis Unit allows freshmen to play on varsity athletic teams, all rules listed in the REGULATIONS section of the catalog apply to the Voorhis Unit as well as to the San Luis Obispo campus. For complete information consult that section of the catalog.

STUDENT WELFARE AND CAMPUS LIFE

ATHLETICS

The Voorhis Unit fielded its first football team in the fall of 1947. A seven-game schedule, principally with colleges in southern California, was completed. In addition to football, competition with these seven colleges was scheduled in basketball and baseball. The Voorhis Unit hopes to participate in track in the spring of 1949, but no schedule has been arranged to date.

An intramural athletic program will include competition in swimming, volleyball, and softball.

Rules regulating eligibility of students to compete in intercollegiate athletics are the same as those for the San Luis Obispo campus, except that freshmen are permitted to play on varsity teams.

CAMPUS EMPLOYMENT AND PLACEMENT

Campus employment opportunities are handled by instructors in the various departments and those charged with campus maintenance. Off-campus employment opportunities also are handled by faculty members of the three major departments. This arrangement is practical because these faculty members are constantly in touch with farmers and commercial people serving in the fields in which the students are receiving training.

The services of the placement office on the San Luis Obispo campus are available to graduates and transfers from the Voorhis Unit. However, staff members of each of the three departments carry the major responsibility for the placement of men who have had all or part of their instruction at the Voorhis Unit.

HEALTH AND MEDICAL SERVICE

Students are required to pay a medical fee of $3.00 per quarter which provides the student with medical service at a clinic in a nearby community. The service covers costs for treatment by a physician or surgeon for colds, digestive troubles, chronic diseases, infectious diseases, minor surgery, setting of broken bones, and first aid. It does not include hospitalization or major surgery.

STUDENT BODY GOVERNMENT

Any student enrolled at the Voorhis Unit, California State Polytechnic College, is eligible for membership in the Associated Student Body of the Voorhis Unit. The membership fee is $15 for three quarters and entitles the student to admission to all athletic events and social events, free or at a reduced rate to be determined by the Student Affairs Council of the Voorhis Unit. Membership also includes a subscription to the weekly paper, Poly Views, and the yearbook, Madre Tierra, free or at a reduced rate to be determined by the Student Affairs Council.

Student body government functions are under the jurisdiction of the elected student body officers and the Student Affairs Council, made up of elected representatives of the various campus organizations.
The Cafeteria-Dormitory Committee, composed of representatives of the student body, cooperates with the college administration in the operation of the college cafeteria and the dormitories.

**CAMPUS ORGANIZATIONS AT VOORHIS UNIT, SAN DIMAS, CALIFORNIA**

Block “P” Association  
Dormitory Clubs  
Agricultural Inspection Club  
Ornamental Horticulture Club—“Los Robles”  
Citrus Club—“Caldimas”  
Crops Club—“Los Rancheros”

Poly Vue—Poly Vue is the name given to the annual open house day of the Voorhis Unit of the California State Polytechnic College. It is designed to show parents and friends the yearly activities and the progress of the institution as well as to provide a time for friends to meet.

Each year a coeducational college in the area is selected by the Voorhis student body to provide a queen and her attendants for the Poly Vue.

**PUBLICATIONS**

Poly Views—the official publication of the associated students of the Voorhis campus published once each week during the school year.  
Madre Tierra—the yearbook of the Voorhis campus.
CALIFORNIA STATE POLYTECHNIC COLLEGE
San Luis Obispo and San Dimas, California

APPLICATION FOR ADMISSION

PLEASE PRINT:

Full Name---------------------------------- Date
(Last) (First) (Middle)

Home Address.....................................................
(Street) (City) (State)

Birthplace---------------------------------- Birthdate
(City) (State)

Father's Name.....................................................
(Legal guardian, if other than father)

Address ..........................................................
(Street) (City) (State)

Race----------------------------- Are you a citizen of the United States?

Religious Preference...........................................

Single------- Married-------- If married, number of children

Are you a veteran of World War II?

Will you enroll under a veterans program?

High School Attended................................. Year Graduated

Have you ever previously registered in this college?

If so, give date

Indicate your contemplated major course of study
(Majors are listed on back of this sheet)

Indicate choice of program within major course of study:

Degree-------- Technical-------- Vocational-------- Special--------
4 year 3 year 2 year

Indicate the quarter and year in which you expect to enroll in this college:

Fall------- Winter------- Spring------- Summer------- Year

Indicate campus at which you expect to enroll:

San Luis Obispo------------------- San Dimas

Request transcripts of your previous high school and/or college records be forwarded to the Registrar, California State Polytechnic College, San Luis Obispo, California. If these arrangements have not been made, give date requests will be made.

It is advisable to send a $10 student deposit several weeks in advance as dormitory space is limited and rooms are reserved in the order in which deposits are received. Plan to bring your own bedding for a three-quarter size bed for use in our dormitories. BED LINEN AND BLANKETS ARE NOT FURNISHED.

Registration at California State Polytechnic College cannot be completed until an application for admission and transcripts of previous record are on file. Mail this form when completed to: The Registrar, California State Polytechnic College, San Luis Obispo, or San Dimas, Calif.

Applicant's Signature

7—92262
**AGRICULTURE**

- Agricultural Engineering
- *Agricultural Inspection*
- Animal Husbandry
- *Citrus Fruit Production*
- Dairy Husbandry
- Dairy Manufacturing
- Deciduous Fruit Production
- Field Crop Production
- Ornamental Horticulture
- Poultry Husbandry
- Truck Crop Production

* The first two years in these majors must be completed at the Voorhis Unit at San Dimas.

**ENGINEERING**

- Aeronautical Engineering
- Air Conditioning and Refrigeration Engineering
- Architectural Engineering
- Electrical Engineering
- Electronic and Radio Engineering
- Maintenance Engineering
- Mechanical Engineering
- Printing

**SCIENCE AND HUMANITIES**

- Life Science
- Mathematics
- Physical Education
- Physical Science
- Social Science

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