

ARCHIVES

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Catalog

Orange County State College

1960-1961

800 North Cypress Avenue

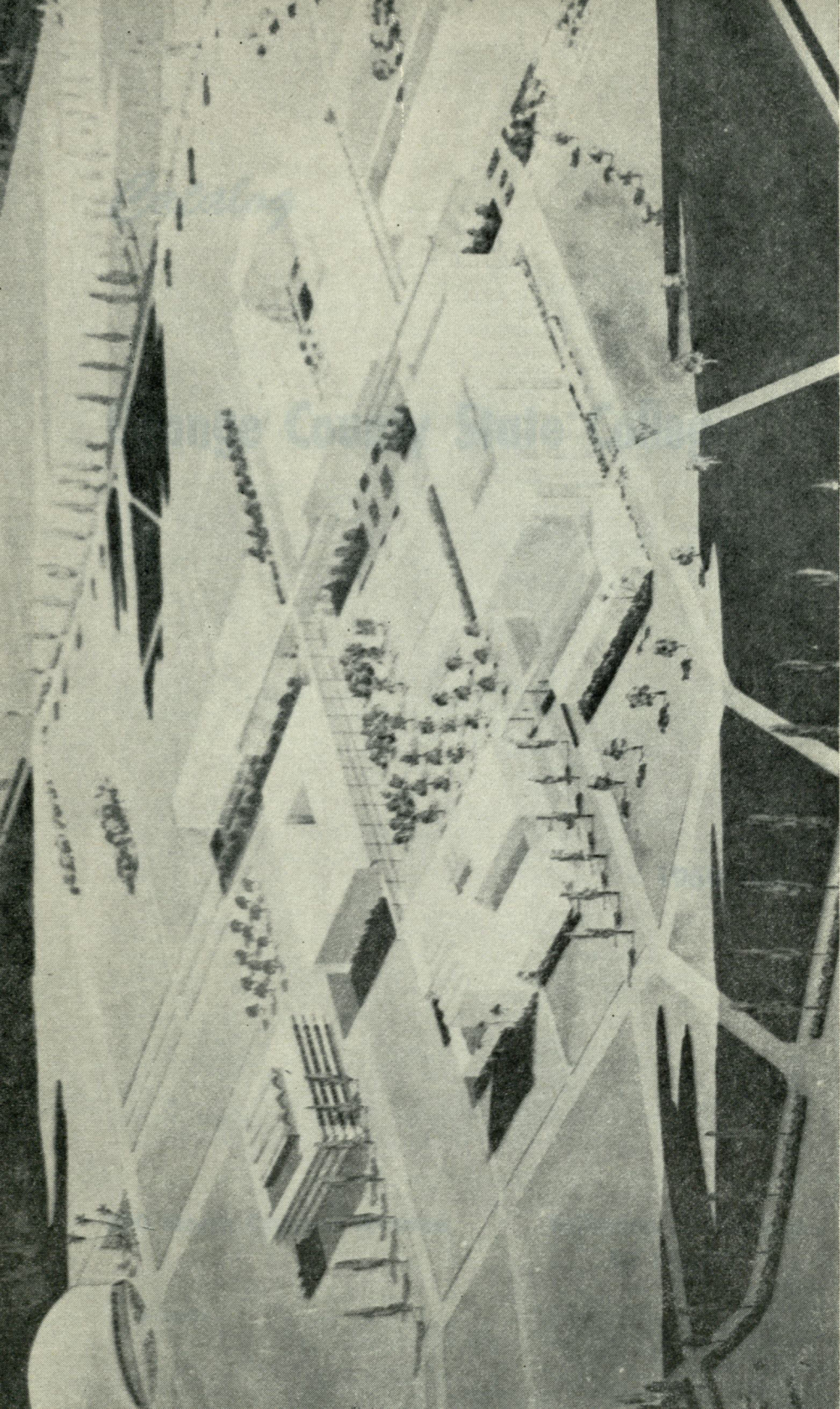
Fullerton, California

TR 1-3300

ORANGE COUNTY STATE COLLEGE



Courtesy of Automobile Club of Southern California



Future Campus of Orange County State College

Catalog

CONTENTS

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1960-1961

800 North Cypress Avenue

Fullerton, California

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CALENDAR: 1960-61

FALL SEMESTER 1960

August	15, Mon.	Applications for admission and transcripts due in Admissions Office
September	12, Mon.	College Faculty meetings
September	13, Tues.	College Faculty meetings
September	14-16, Wed.-Fri.	Registration for all classes
September	16, Fri.	Last day to register without late registration fee
September	19, Mon.	Classes begin
September	23, Fri.	Last day to register or add classes
October	14, Fri.	Last day to drop a course without "F" penalty
November	11, Fri.	Veterans Day (Holiday)
November	24, Thurs.	Thanksgiving Vacation
November	25, Fri.	Thanksgiving Vacation
December	19, Mon.	Christmas Vacation begins
January	3, Tues.	Classes resume
January	20, Fri.	Instruction ends
January	23-27, Mon.-Fri.	Semester examinations

SPRING SEMESTER 1961

January	13, Fri.	Applications for admission and transcripts due in Admissions Office
February	1-3, Wed.-Fri.	Registration for all classes
February	3, Fri.	Last day to register without late registration fee
February	6, Mon.	Classes begin
February	10, Fri.	Last day to register or add classes
February	13, Mon.	Lincoln's Birthday (Holiday)
February	22, Wed.	Washington's Birthday (Holiday)
March	3, Fri.	Last day to drop a course without "F" penalty
March	27, Mon.	Spring Vacation begins
April	3, Mon.	Classes resume
May	30, Tues.	Memorial Day (Holiday)
June	2, Fri.	Instruction ends
June	5-9, Mon.-Fri.	Semester examinations
June	10, Sat.	Commencement (date subject to change)

SUMMER SESSION 1961

June	19, Mon.	Summer Session begins
July	28, Fri.	Summer Session ends

ADMINISTRATION

CALIFORNIA STATE DEPARTMENT OF EDUCATION

Roy E. Simpson
 Superintendent of Public Instruction and State Director of Education
 J. Burton Vasche Associate Superintendent of Public Instruction and
 Chief, Division of State Colleges and Teacher Education
 Don R. Youngreen
 Assistant Chief, Division of State Colleges and Teacher Education

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COLLEGE ADMINISTRATION

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 Executive Dean Stuart F. McComb
 Building Coordinator Charles F. Grant
 Publications Manager William A. Carmody

INSTRUCTION

Dean of Instruction Gerhard E. Ehmann
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 College Librarian Ernest W. Toy, Jr.
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 Education and Psychology Division, Chairman Kenneth R. Doane
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Social Sciences Division, Chairman	Giles T. Brown
Geography Department, Chairman	Delmas A. Bugelli
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Dean of Students	Ernest A. Becker
Associate Dean of Students, Activities	Ludwig J. Spolyar
Associate Dean of Students, Admissions and Records	Emmett T. Long
Registrar	Ronald M. Bristow
Associate Dean of Students, Counseling and Testing	Lester M. Beals
College Physician	Harold L. Graber

BUSINESS MANAGEMENT

Business Manager	Jack E. Lyons
Accounting Officer	Richard A. Wilcott
Personnel Officer	Lee Spencer

COLLEGE COMMITTEES

Executive	Langsdorf, Chairman
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Building Development	McComb, Chairman
Foundation	Langsdorf, President
Graduation	McCarthy, Chairman
Master Plan	Langsdorf, Chairman
Student Loans	Becker, Chairman

FACULTY COMMITTEES

Committee on Committees
 Executive Committee of the Faculty Council
 Curriculum
 Faculty Affairs
 Honors and Awards
 Instructional Materials
 Selection, Retention, and Promotion
 Student Affairs

FACULTY

- LANGSDORF, WILLIAM B. President and Professor of History
B.A., M.A., Occidental College; Ph.D., University of California
- ADAMS, RAYMOND V. Professor of Physics and Chairman, Physics Department
B.S., Kansas State University; Ph.D., California Institute of Technology
- ALAMSHAH, WILLIAM H. Associate Professor of Philosophy
and Chairman, Philosophy Department
M.A., Claremont Graduate School; Ph.D., University of Southern California
- ALEXANDER, JAMES P. Assistant Professor of Journalism
B.A., M.S., in Ed., University of Southern California
- ALLEN, HOLLIS P. Professor of Education
B.A., Pomona College; M.A., Ed.D., Stanford University; LL.D., Claremont
Graduate School
- AMES, DENNIS B. Professor of Mathematics and Chairman, Department of Mathematics
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- BEALS, LESTER B. Associate Dean of Students, Counseling and Testing, and Professor of Education
B.A., M.A., University of Nebraska; Ed.D., University of Oregon
- BECKER, ERNEST A. Dean of Students and Associate Professor of Philosophy
B.A., Amherst College; B.D., Hartford Theological Seminary; M.A., University
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- BRATTSTROM, BAYARD H. Assistant Professor of Zoology
B.S., San Diego State College; M.A., Ph.D., University of California, Los Angeles
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B.A., Chapman College; M.S. in Ed., Ed.D., University of Southern California
- BRISTOW, RONALD M. Registrar and Instructor in Education
B.A., M.S., University of Southern California
- BROWN, GILES T. Professor of History and Chairman, Division of Social Science,
and Chairman, Department of History
B.A., San Diego State College; M.A., University of California; Ph.D., Claremont
Graduate School
- BUGELLI, DELMAS A. Professor of Geography and Chairman, Geography Department
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cago; Ph. D., Columbia University
- CARMODY, WILLIAM A. Publications Manager and Associate Professor of Journalism
B.S., Wisconsin State College, Platteville; M.S., Columbia University; Ed.D.,
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- CARR, EDWIN R. Professor of Education and Economics
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B.A., National Wu-han University, China; M.S. in L.S., M.A., Ph.D., University of Illinois
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- DEGRAAF, LAWRENCE B. _____ Assistant Professor of History
B.A., Occidental College; M.A., University of California, Los Angeles
- DIETZ, NAOMI G. _____ Associate Professor of Art
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- DOANE, KENNETH R. _____
Professor of Education and Chairman, Division of Education and Psychology
B.A., Wisconsin State College, La Crosse; M.S., Ph.D., University of Wisconsin
- EARICK, ARTHUR D. _____ Assistant Professor of Geography
B.A., Indiana University; M.A., Ph.D., University of Michigan
- EHMANN, GERHARD E. _____ Dean of Instruction and Professor of Education
B.A., Occidental College; M.A., Ed.D., University of California, Los Angeles
- FESSENDEN, SETH A. _____ Professor of Education and Speech and Chairman,
Division of Communication, and Chairman, Department of Speech
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- GRANT, CHARLES F. _____ Building Coordinator and Vocational Instructor,
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YOUNG, JAMES D......Associate Professor of Speech and Drama
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HISTORY OF ORANGE COUNTY STATE COLLEGE

Orange County State College was established by Act of the Legislature, Chapter 1281 of the Statutes of 1917. Chapter 1281 also authorized the appropriation of \$10,000 for site acquisition and construction.

The Public Works Board, after a study of 19 possible sites in Orange County, on March 17, 1918 selected the area located on the northeast corner of the intersection of Highway 101 and Highway 101. The site was bounded on the north by the intersection of Highway 101 and Highway 101, on the east by Highway 101, on the south by the intersection of Highway 101 and Highway 101, and on the west by the intersection of Highway 101 and Highway 101.

The construction of the college building by Superintendent Roy H. Edwards was approved by the State Board of Education on January 10, 1919. Construction of the college building began under the supervision of the State Board of Education and was completed in the fall of 1919.

Agreements were made with the Public Works Board, the State Board of Education, and the State Board of Education for the college administrative offices on the Public Works Board campus, and for holding college classes in the State High School building for the 1919-1920 school year.

Applications for admission of students were received during the spring and summer of 1919. At the time of registration for the fall semester, there were 100 students enrolled, of whom 100 were regular students and 100 were special students.

The president of Orange County State College was officially inaugurated in 1919. The first 100 students enrolled in the college in the fall of 1919. The college was opened in 1919.

ORANGE COUNTY STATE COLLEGE

PHILOSOPHY

Orange County State College assumes that a college education must provide students with a broad liberal background and at the same time can and should furnish the practical base for success in a chosen occupation or profession. To accomplish the latter, the college offers a number of curricula in such fields as business administration, communication, humanities, social science, teaching, and science. These are closely related to occupational and professional requirements, and to the particular needs of the Orange County region.

Equally as important, however, are the college requirements which implement the law authorizing state colleges to be broad liberal arts institutions. Like other state colleges, OSCS has a breadth requirement in general education, largely met prior to admission at the junior year. We are unique, however, in also requiring depth in one particular field of knowledge. All students, in addition to any occupational or professional program, are expected to complete a liberal arts major. Through this requirement the college hopes to assure for its graduates depth in at least one field of knowledge, depth which alone can provide perspective and appreciation of our magnificent cultural heritage, the vast scope of knowledge, and the narrow limits which ignorance and superficiality impose.

By these several means the college hopes to fulfill its highest purpose—that of helping students to equip themselves through knowledge and understanding to participate effectively as citizens of their community and country and as worthy heirs of a great civilization.

HISTORY OF ORANGE COUNTY STATE COLLEGE

Orange County State College was established by act of the Legislature under terms of Chapter 1681 of the Statutes of 1957. Chapter 1681 also included an appropriation of \$1,650,000 for site acquisition and construction.

The Public Works Board, after a study of 19 possible sites in Orange County, on March 13, 1958, selected 160 acres located in the northeast section of the City of Fullerton. The original acreage has since been augmented by two additions, one of 75 acres and the other of 17 acres. The site now consists of 252 acres bounded on the north by Pioneer Avenue, on the west by Cypress Avenue, on the south by the extension of Nutwood Avenue, and on the east by the proposed north-south freeway.

The appointment of the college president by Superintendent Roy E. Simpson was approved by the State Board of Education on January 16, 1959. Beginning March 1, additional appointments have been made until there were over 100 employees, including part-time faculty, at the beginning of the 1960-61 academic year.

Arrangements were made with the Fullerton Union High School District to lease quarters for the college administrative offices on the Fullerton Union High School campus, and for holding college classes at the Sunny Hills High School for the 1959-1960 school year.

Applications for admissions of students were accepted during the spring and summer. At the close of registration for the fall semester, there were 459 students enrolled, of whom 107 were regular students and 352 limited students carrying six units or less. The full-time equivalent of those enrolled would be 174 students.

The president of Orange County State College was originally instructed to master plan for 15,000 regular students, to be reached in the early 1970's. Later, the instruction was changed to master plan for 35,000 regular students to be reached by 1980.

The college is now on its own ground at 800 North Cypress Avenue where it is housed in 12 temporary buildings. The first permanent building is expected to be completed in 1963. Enrollment for 1960-1961 is predicted to be 670 full-time equivalent students. This figure will grow each year until 1,800 full-time equivalent students will be enrolled when the first permanent building is completed.

THE COLLEGE LIBRARY

The College Library, housed in Building 1100, will contain at the beginning of the 1960-1961 academic year approximately 10,000 volumes. This collection will include regular books, bound periodicals, and special collections of curriculum materials and elementary texts. During the year, about 12,000 volumes will be added. In addition to these materials, the library will have available about 1,000 pamphlets and 300 different periodicals.

Professional librarians will be available to aid students in the use of library materials.

THE ORANGE COUNTY STATE COLLEGE FOUNDATION

The Orange County State College Foundation has been organized to provide essential student and faculty services which cannot be provided from state appropriations. The Foundation was incorporated in October 1959. The Board of Trustees is made up of members of the college faculty and administration.

The Foundation will have over-all policy control of the College book store and food service. In order to allow students a means of participating in the formulation of the policies for the book store and food service, the Foundation Board has delegated specific responsibilities in these areas to student committees.

As the college grows, the Foundation will be able to provide many services to the students. These will include a well-stocked book store, a complete food service, student loans, scholarships, opportunities to assist members of the faculty in sponsored research and special internship, and experience programs that cannot be financed with state funds.

ADMISSIONS AND REGISTRATION

The admission requirements of Orange County State College are in accordance with regulations specified in the California Administrative Code, Title V, Education, which provides uniform admission regulations for all California State Colleges.

Orange County State College at present offers only upper division and graduate work. Application for admission must be made to the Office of Admissions by the filing deadline shown in the college calendar on page 7.

UNDERGRADUATE STUDENTS

Requirements

Applicants are *admitted to regular standing* if they meet all of the following standards:

1. Completion of 54 transferable semester units.
2. A 2.0 (C) average in all units attempted.
3. Substantial completion of all the state college general education requirements.
4. In "good standing" at previous institutions attended.

Procedure

All students, both full-time and part-time, will be required to matriculate. This includes:

1. Submitting a completed Application for Admission.
2. Having the high school of graduation send directly to Orange County State College a transcript of record.
3. Having *each* college attended send directly to Orange County State College a transcript of record.

GRADUATE STUDENTS

Requirements

A student who has earned an acceptable bachelor's degree from an accredited college or university may be admitted in unclassified graduate status. Admission with *unclassified graduate* status does not constitute acceptance as a master's degree candidate. Master's degree candidates must, subsequent to attaining unclassified graduate status from the Office of Admissions, qualify for *classified graduate* status by satisfying the requirements published by the Office of the Dean of Instruction.

Procedure

1. Students planning to work toward a degree or credential at Orange County State College will follow the same procedure shown for undergraduate students with the exception that no high school transcript need be submitted.
2. Students *not* planning to work toward a degree or credential at Orange County State College and wishing to take a *maximum of 6 units* any semester will submit the following:
 - a. A completed Application for Admission.
 - b. Satisfactory *proof of degree*, e.g. college diploma.
No evaluation of transfer credit will be given to such students and no advisement is offered.

PROBATIONARY AND PROVISIONAL ADMISSION

1. Applicants who are admitted with a grade point deficiency are given *probationary* status and must remove the entrance deficiency during their first year at Orange County State College. A student admitted on *probationary* status may be restricted by his adviser to a limited program.
2. State law provides that applicants who apply with credit from non-accredited colleges, may be considered for provisional admission. An applicant who has attended a non-accredited college or university may be admitted to a state college if he meets the standards listed for transfers from accredited colleges and universities.

ADMISSION OF INTERNATIONAL STUDENTS

Special application forms are required of international student applicants. Such forms and directions for their use may be obtained from the Office of Admissions.

Students from other countries are required to submit with their applications evidence of competence in the English language, a medical certificate of health, and evidence of financial resources adequate to provide for all expenses during the period they expect to be registered as students in the college.

Transcripts required are the same as for other applicants. It should be noted, however, that foreign language transcripts must be accompanied by certified English translations.

CANCELLATION OF ADMISSION

A student who is admitted to the college for a given semester but who does not register in the specified semester will have his admission canceled. The student must file a new application form when he again seeks admission and must meet the current admission requirements.

READMISSION

Students in "good standing" may be readmitted to the college after an absence of one or more semesters by filing a new Application for Admission. Students who have attended another institution since their last attendance at Orange County State College must have a transcript of record from that institution sent directly to the Office of Admissions.

ADMISSION TO CREDENTIAL PROGRAMS

Admission to the college as a student does not constitute admission to the teaching credential program. Students who intend to work toward credentials must make application to the Division of Education and Psychology during their first semester of attendance. Admission will be subject to criteria stated on pages 41-44.

ACCEPTANCE OF CREDIT

Credit for work completed at accredited institutions will be accepted toward the satisfaction of degree and credential requirements at Orange County State College within limitations of residence requirements, junior college transfer maximums, and course applicability.

TRANSFER OF CREDIT FROM A JUNIOR COLLEGE

Not more than 64 semester units may be allowed for credit earned in a junior college. Upper division credit is not allowed for courses taken in a junior college. Credential credit is not allowed for courses in education taken in a junior college. This does not invalidate credit for pre-professional courses taken at a junior college, such as introduction to education, art or design, arithmetic and/or music for classroom teachers.

CREDIT FOR MILITARY SERVICE

Students who have been in military service for at least a year may be granted six units of credit. Courses taken in service schools may be given credit on the basis of an evaluation which determines that they are of college level. Any credit for military experience will be given only upon request. Records verifying such experience must be filed with the Office of Admissions.

CREDIT FROM NON-ACCREDITED INSTITUTIONS

Credit may be accepted from non-accredited institutions toward graduation requirements only after a student has earned 24 semester units with at least a C average at Orange County State College.

CREDIT FOR EXTENSION AND CORRESPONDENCE COURSES

The maximum amount of credit through correspondence and extension courses which may be allowed toward the bachelor's degree is 24 units, of which not more than 12 may be transferred from another college or university.

STATEMENT OF RESIDENCE

A Statement of Residence must be completed prior to registration for each student, day or evening. No student in continuous attendance during successive semesters is required to file a Statement of Residence after the initial filing. Any break in attendance requires a new Statement of Residence.

ACADEMIC REGULATIONS

Grading System

Grade	Grade Point Value
A Excellent	4
B Above Average	3
C Average	2
D Barely Passing	1
E Incomplete	0
F Failure	0
AU Auditor (no credit toward degree or credential)	None Assigned
W Passing Withdrawal	None Assigned
CR Credit for course, no grade assigned	None Assigned

With the exception of the grades of AU, W, and CR, all units attempted are computed in the student's grade point average.

Incomplete Work

A grade of E may be given only when, in the opinion of the instructor, a student cannot complete a course during the semester of enrollment for reasons beyond his control. Such reasons are assumed to include illness of the student, of members of his immediate family, extraordinary financial problems, loss of outside position, and other such exigencies. A student may remove a grade of E (incomplete work) by satisfactory completion of course requirements with the instructor and the grade will be changed on the student's permanent record card to that designated by the instructor. If the grade of E is not removed within one semester, unless this period is extended by proper college authority, the grade of E will be considered a permanent grade of F.

Repetition of Courses

When a course is repeated, the units and grade points of the repetition are included in the grade point average in addition to the units and grade points of the original course. When a course is repeated, where the original grade was passing, the repetition will carry no subject or unit credit toward a degree or credential. Grade point deficiencies incurred by courses completed at Orange County State College may not be made up by courses taken at other colleges.

Good Standing

"Good standing" indicates that a student is eligible to continue or to return, and is free from financial obligation to the college and from disciplinary action. A student under academic or disciplinary dismissal is not eligible to receive a statement of "good standing" on transcripts issued by Orange County State College.

Residence Requirements for All Degrees

A minimum of 24 semester units shall be earned at Orange County State College. At least one-half of such units shall be completed among the last 20 semester units counted toward the degree.

Academic Probation

It is the purpose of academic probation to identify and to bring to the attention of the counseling office the student who is experiencing academic difficulties. Therefore, students whose records fall into any one of the following categories are placed on academic probation:

1. Where the cumulative grade point average on all work attempted at all institutions attended is below a C (2.0).
2. Where the cumulative grade point average on all work attempted at Orange County State College falls below a C (2.0).
3. Where the record shows below a C (2.0) average in any one semester or summer session regardless of the cumulative grade point average.

Academic Dismissal

It is the purpose of academic dismissal to give the student an opportunity to review carefully his educational experiences away from the college environment. This "break" will normally be imposed before the student's record has reached the point where it will preclude a continuation of his educational program at a later date. Therefore, students whose records fall into the following categories will be *subject to dismissal* and action will be taken before the next semester begins. Records will be reviewed individually.

1. Where the record shows below a C (2.0) average in a regular semester or summer session when the student is already on academic probation. (This category does not apply to students admitted on probation.)
2. Where after two semesters on probation a student has not attained a grade point average of C (2.0) on all work attempted at Orange County State College and on all work attempted at all collegiate institutions attended.
3. Where the academic record of the student indicates serious academic difficulty.

Removal of Probation

A student will be automatically removed from academic probation when all the following conditions are met:

- a. The student's cumulative grade point average on all work attempted at Orange County State College is a C (2.0) or above.
- b. The student's cumulative grade point average on all work attempted at all collegiate institutions attended is a C (2.0) or above.
- c. A C (2.0) grade point average is attained on the last semester of work attempted.

Readmission After Academic Dismissal

A student may apply to the Office of Admissions for readmission after academic dismissal upon completion of the period of dismissal.

Change of Program

Students who wish to drop a class or withdraw from college must fill out a *change of program* card in the Office of the Registrar. All grades for withdrawal

through the first four weeks of instruction of the semester will be W. Beginning with the fifth week, and through the tenth week of instruction, grades assigned will be W if the student is passing at the time he withdraws, or F if the student is failing at the time he withdraws. Beginning with the eleventh week of instruction, a student will be given an F if he drops a class or withdraws from college, except when in the opinion of the instructor he is entitled to receive a grade of E (incomplete).

Examinations

Final examinations are required in all courses. No final examinations shall be given to individual students before the regularly scheduled time. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements in advance with the instructor to have an "Incomplete" grade reported and must then follow the regulations concerning make-up of "Incomplete" grades. No exception will be made to this rule without the written approval of the instructor, the division chairman, and the Dean of Instruction.

Classification in College

Undergraduate students who have completed 0-29 units of work are classified as freshmen, 30-59 units as sophomores, 60-89 units as juniors, and 90 or more as seniors.

Transcripts

Upon request to the Office of the Registrar, each student will be provided with one official copy of his college record without charge. A charge of \$1 will be made for each additional transcript requested by the student. No transcript will be supplied for college work taken in other institutions.

Study List Limits

A student is normally permitted to enroll in a maximum of 16 units each semester. However, upon written approval of his adviser, the student may carry additional units. The foregoing limits apply to students who are attending college on a full-time basis. Students with outside responsibilities are strongly advised to reduce their study load.

Auditors

A properly qualified student may register in classes as an auditor, provided there is room. The student must meet the regular college entrance requirements and must pay the same fees as other students. An auditor may not change his registration to obtain credit after the last date to add courses to the study list. An auditor is not permitted to take examinations in the course. No credit will be granted toward a degree or credential for a course with an audit grade.

Dual Registration

A student enrolled at Orange County State College may enroll concurrently for additional courses at another institution only with advance written approval from the Committee on Academic Standards. Permission will not be granted when the study load in the proposed combined program exceeds the units authorized at this college.

Unit of Credit

Each college semester unit represents three hours of college work per week for one semester. Courses are of three types:

1. Lecture—one hour in class plus two hours of study
2. Activity—two hours of class plus one hour of study
3. Laboratory—three hours in class

Some courses may combine two or more of these types.

Grade Reports to Students

A report of the final grades assigned in classes is sent to each student at the end of each semester.

GRADUATION AND CERTIFICATION POLICY

Requirements for Graduation and Certification

A student is eligible for graduation and/or certification for a credential if he is in good standing and fulfills the following requirements:

- a. Completion of the required number of units for the degree or credential. A minimum of 124 semester units is required for graduation with a Bachelor of Arts degree. As is true of any newly established college, OCSC cannot be fully accredited until it receives a formal visitation from an accreditation committee. In the meantime, the State Department of Education accepts all courses taken toward teaching credentials, and other state colleges will accept for transfer all courses taken at OCSC. Students should experience no difficulty in transferring courses taken here to other colleges and universities.
- b. Completion of the course sequence required for the degree or credential, including general education requirements as listed below:
 - (1) Social Sciences 9 units
Must include instruction in United States History, Constitution, California State and Local Government, and American ideals, and courses in the fields of anthropology, economics, geography, history, political science, sociology, and similar fields. Courses must be selected from two or more of these fields.
 - (2) Natural Sciences 9 units
Includes fields of astronomy, botany, chemistry, geology, physics, physiology, zoology, and similar fields. At least one course must be selected from a physical science and from a life science.
 - (3) Literature, Philosophy, or the Arts 6 units
(Fine and practical arts not to exceed 3 of the 6 units)
 - (4) Health and Physical Education 2 units
 - (5) Oral and Written Expression 3 units
 - (6) Psychology 2 units
 - (7) Additional units in General Education 14 units
- c. Satisfaction of the residence requirement
- d. Achievement of a C (2.0) grade point average on all work attempted at all institutions attended, including Orange County State College
- e. Recommendation by the faculty.

Application for Graduation

A candidate for graduation should file an application for a graduation requirement check in the Office of the Registrar by the end of the tenth week of the semester previous to the semester in which he expects to graduate.

EVALUATION OF TRANSFER CREDITS

The Office of Admissions will evaluate previous college work in terms of its relationship to the requirements of Orange County State College. All degree and credential candidates will be issued a Credit Summary, which serves as a basis for determining specific remaining requirements for the student's specific objective. Once issued to a student, the evaluation remains valid as long as the student matriculates at the date specified, pursues the objective specified, and remains in continuous attendance. The student will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code.

In view of the foregoing regulations, the student should notify the Office of Admissions immediately if he changes the objective specified in his evaluation.

While the evaluation for a student remains valid, the student is held responsible for complying with all changes in regulations and procedures which may appear in subsequent catalogs.

REGISTRATION

Registration is the final step in the matriculation process. When a student has been admitted by the Office of Admissions and has decided in a conference with his assigned adviser which subjects he wishes to take, he is ready for registration.

A *Class Schedule* containing details regarding courses offered and procedures to be followed for registration is made available prior to the beginning of each semester and summer session.

At the time of registration, every student is required to file a program card with the Office of the Registrar. The filing of a program card by the student and its acceptance by the college is evidence of an obligation by the student to perform the designated work to the best of his ability. Withdrawal from, or neglect of, any course entered on the program card, or a change of program (including a change of section of the same course) without the formal permission of the Office of the Registrar, will result in a grade of F.

A student may not receive credit in any courses in which he is not registered.

LATE REGISTRATION

The last day to register late each semester will be announced in the *Class Schedule*. The college calendar in the front of this catalog contains 1960-61 registration dates. Late registrants will find themselves handicapped in arranging their programs and must by state law pay a \$5 late registration fee in addition to regular fees.

FEES AND EXPENSES

REGISTRATION FEES

Regular Students

Materials and service fee	\$33.00
Associated Students fee	9.00
Total per semester	\$42.00

Limited Students (1-6 units)

Materials and service fee	\$17.00
Associated Students fee	4.00
Total per semester	\$21.00

Other

Nonresident tuition fee (maximum \$127.50) per unit	\$8.50
Late registration fee (in addition to other fees listed above)	\$5.00

OTHER FEES OR CHARGES

Check returned from bank for any cause	\$2.00
Change of program	1.00
Transcript fee (no charge for first copy)	1.00
Failure to meet administratively required appointment or time limit (special aptitude examinations, failure to keep appointments for health examination, special final examinations)	2.00

Auditors Pay the Same Fees as Others

Fee Schedule Subject to Change by State Authority

REFUNDS OF FEES

Materials and Service Fee

Upon withdrawal from the college, the materials and service fee may be refunded if written application for refund is submitted to the Registrar not later than 14 days following the day of the term that instruction begins; provided that the amount of \$2 shall be retained to cover the cost of registration. Late registration fees and late change of program fees are not refundable.

The entire fee may be refunded in the event a student is unable to continue his registration because of a college regulation or because of compulsory military service. Application for refund under such circumstances may be made at any time prior to the date when the student receives any academic credit for the courses for which he is registered.

The difference between the applicable materials and service fee, less \$2, may be refunded if the unit load of the student is reduced to a lower materials and service fee category within the 14 days following the day of the term that instruction begins.

For each unit of nonresident fee charged, the state will refund the entire fee charged during the first week of the semester upon written application, thereafter: second week 90%, third week 70%, fourth week 50%, fifth week 30%, sixth week 20%, from the seventh week on, no refund.

PARKING FEES: (Student and Employee)

Non-Reserved Spaces:

Regular students (over 6 units) per semester	\$13.00
Summer Session—6 weeks sessions	5.00
Other sessions—1 week or more	1.00 per week
Each alternate car vehicle in addition to fee for first vehicle—per semester	1.00

Reserved Spaces:

Per calendar month or major fraction thereof \$5.00

COIN OPERATED PARKING GATE—controlled spaces..... .25 per admission

- (1) Designated spaces for two-wheeled, self-propelled vehicles required to be licensed by the State Department of Motor Vehicles will be charged 25% of the fees shown above except the fee for an alternate include a two-wheeled motorized licensed vehicle and a car, the "first vehicle" shall be the car and full fees collected accordingly.
- (2) Fees for portions of a semester or summer period will be made in accordance with the following schedule which refers to calendar days commencing on the date of the term when instruction begins:

<i>Per Semester</i>		<i>Summer Periods</i>	
<i>Period</i>	<i>Amount</i>	<i>Period</i>	<i>Amount</i>
1-30 days	100% of fee	First 1/3 of period	100% of fee
31-60 days	75% of fee	Second 1/3 of period	66% of fee
61-90 days	50% of fee	Last 1/3 of period	33% of fee
91 to end	25% of fee		

VETERANS

Orange County State College is approved by the Bureau of Readjustment Education, State Department of Education, to offer programs to veterans seeking benefits under state and federal legislation. All students seeking veterans benefits must have a degree or credential objective.

Applications for benefits should be filed well in advance of the semester in which the veteran plans to use these benefits in order to have the authorization at the time of registration.

P. L. 550

Application. If the veteran has attended an institution under P. L. 550 benefits before: Through the Office of Veterans Affairs at the institution last attended under P. L. 550 benefits, the veteran must file an Application for Change of Place of Training (VA form 1995).

If the veteran has *not* attended an institution under P. L. 550 benefits before: The application forms may be obtained from the Veterans Adviser at OCSC.

Monthly Certification. Each month, the veteran must obtain an *Attendance Report Form* from the veterans adviser. This form must be signed by each of the veteran's instructors on the last class meeting of the month. This signature will verify satisfactory attendance for the month. When completed, the *Attendance Report Form* must be returned to the veterans adviser and the veteran must sign the IBM certification card that is forwarded to the VA. The *Attendance Report Form* must be returned to the veterans adviser on or before the 5th of the month to ensure receiving the subsistence check on time.

Subsistence Checks. The subsistence check should be received on the 20th of the month following the month of certification. Under no circumstances should this check be cashed if the amount is more than the veteran should have received. An overpayment accepted by the veteran will cause an indefinite delay or loss of future benefits. If the check has not been received by the end of the month following the month of certification, the veteran should notify the veterans adviser at OCSC.

Change of Status. The veterans adviser at OCSC must be notified immediately of any change of address, major, unit load, number of dependents or any other change of status which may affect benefits.

Unit Load and Subsistence

Units	Load	Single	1 Dependent	2 Dependents
14 or more	Full	\$110	\$135	\$160
10 to 13	$\frac{3}{4}$	\$ 80	\$100	\$120
7 to 9	$\frac{1}{2}$	\$ 50	\$ 60	\$ 80
1 to 6	Less than $\frac{1}{2}$	Fees in monthly subsistence form (total for monthly payments equals amount of fees by the end of the semester.)		

Cal Vet

Application. If the veteran has attended an institution under Cal Vet benefits before: Obtain the IBM card authorization for training from the Office of Veterans Affairs at the last institution attended under Cal Vet benefits. This IBM card must be filed with the veterans adviser at OCSC.

If the veteran has *not* attended an institution under Cal Vet benefits before: The application forms may be obtained from the veterans adviser at OCSC.

Payment of Fees. If the veteran has filed his IBM authorization card with the veterans adviser at OCSC prior to or at registration, the fees will be paid by the State. If the veteran files the IBM authorization card *after* registration, he may receive a check to cover the fees upon direct application to Cal Vet. The application for refund may be obtained from the veterans adviser.

Maintenance Allowance. If the veteran is registered for a full load (12 semester units) at OCSC, he may receive approximately \$50 a month from Cal Vet as a maintenance allowance.

Enrollment Attendance Certificate. When the veteran registers, he must complete an enrollment certificate. He must fill out an attendance certificate on the 15th of each month only if he is receiving the maintenance allowance.

Veterans Attending Under Other State or Federal Legislation. Veterans anticipating attendance at OCSC under other state or federal legislation should see the veterans adviser for further information.

Dependents of Disabled or Deceased Veterans. Dependents of disabled or deceased veterans should see the veterans adviser for information concerning state and federal legislation which provides for the waiver of fees or for educational benefits.

STUDENT SERVICES

Student services of Orange County State College are centered in the Office of the Dean of Students. The three major divisions are admissions and records, counseling and testing, and student activities. Additional services are offered as the needs of the students are expressed and as the growth of the college continues. Student health, student placement, housing, part-time employment, and other similar concerns are centered in this office.

HOUSING

No dormitories will be constructed on the college campus for some years. However, a list of rooms and apartments in the community has been prepared by the Office of the Dean of Students and those who wish to live away from home may inquire there for suggested lodging.

STUDENT HEALTH

The student health center is located in building 1400. Under the direction of the College Physician, a program of emergency treatment will be offered beginning September 1960. A graduate nurse will be on duty full-time, and the College Physician will be available as needed. Student health records will be kept in this office and physical examinations for credential purposes will be given by appointment by the College Physician. Students may have examinations by their own physicians if desired. Forms for this purpose may be obtained in the student health center.

PROGRAM ADVISEMENT

Program advisement is the direct responsibility of the division in which the student is pursuing his major. He therefore makes an appointment with his assigned adviser to discuss the courses he should take to fulfill his major.

COUNSELING AND TESTING

Personal counseling other than academic advisement is available at all times in the Office of the Dean of Students. Students are encouraged to talk over matters of concern that may affect their ability to do satisfactory work in college.

Under the direction of the Test Officer, standardized tests are administered for purposes of class placement and entrance into directed teaching. Arrangements may be made for taking a study habits inventory, vocational interest inventory, temperament and personality inventories, and other similar instruments, with interpretation available by either the Test Officer or other members of the Dean of Students' staff.

REMEDIAL WORK

Students whose scores in the college testing program indicate the need for a basic review of fundamentals in certain subject areas may be required to take remedial work as a condition of their continuance in college for a second semester. Since no remedial courses are offered at the upper division level, students are advised to take such necessary courses at a junior college. Concurrent enrollment is permissible but only upon application and approval by the Committee on Academic Standards and by the counseling center of the junior college concerned.

SCHOLARSHIPS AND LOANS

Funds are not yet available for awarding scholarships. However, Orange County State College is a participant in the program resulting from the National Defense Education Act of 1958. By this legislation, loan funds have been made available to college students by both the federal and the state government.

In general, the following conditions must be met for a student to qualify for a loan:

1. He must be a citizen of the United States or an American national.
2. He must be in good standing at the college.
3. He must be a full-time student, carrying a minimum of 12 units at OCSC.
4. He must demonstrate financial need.
5. He must submit a loan application which includes a budget, personal data, parents' financial status (if the student is under 21 years of age), and at least two references.

The loan is to assist the student to remain in college and complete his education. Funds are not granted for the purchase of new automobiles, homes, for paying off accumulated debts, or for non-college related expenses. The student is required to sign a promissory note for repayment of the loan and an oath of allegiance to the United States. The principal amount of the loan must be repaid to the college beginning one year after the borrower ceases to be a full-time student. By law, interest is 3 per cent per annum and is not charged until repayment begins. The borrower has 10 years to complete payment. Full-time elementary or secondary school teachers, not including junior college instructors, are entitled to a 50 per cent forgiveness of the principal.

Application should be made in the office of the Associate Dean of Students, Counseling and Testing. No deadline for applying has been set and a student may apply at any time during the semester that an urgent need becomes apparent. Loans are usually granted on a semester basis, and a student would normally be expected to apply not more than once each semester.

All loan funds are handled by the Orange County State College Foundation, and gifts for scholarship purposes should be addressed to the Foundation.

STUDENT ACTIVITIES

The faculty of the college recognizes the important role of student activities in the growth and development of young people in our society. The scope of the activities program includes areas of interest to both day and evening students attending the college. Every student is encouraged to participate in as many activities as his free time allows.

During the first year, 1959-1960, the students organized as Associated Students, voted a student body fee for the support of activities, selected "Titans" as a nickname, and began publishing a college newspaper. The *Titan Times* was published biweekly during the spring semester and is expected to become a four-page weekly in September 1960.

Two formal dances, a picnic, and a number of assemblies were held during the first year. With the anticipated formation of clubs and other organizations, such extracurricular activities will offer students a much wider range of interests from which to choose.

Athletics

Under the direction of the Associate Dean of Students, Activities, a committee of students and faculty has been organized to plan a year-round program of intramural athletics. Softball, basketball, volleyball, tennis, and many other sports will be offered.

A 26-game basketball schedule has been arranged for 1960-61 with many state colleges and universities in California. Home games will be played in the Fullerton Junior College gymnasium.

In the spring of 1960, a group of Orange County citizens organized a boosters club to help foster wholesome intercollegiate athletic competition at Orange County State College. Its members are dedicated to the encouragement of a sound program of athletics and are contributing financially and by way of enthusiasm in helping to develop a first-rate athletic program based on a well-rounded concept of the relationship between sports and academic achievement.

COURSES OF STUDY

BACHELOR OF ARTS DEGREES AVAILABLE

1. Biological Sciences
2. Business Administration and Economics
3. Elementary Education
4. Language Arts (Literature)
5. Language Arts (Speech-Drama)
6. Mathematics
7. Music
8. Social Science

COURSES AND DIVISIONS

COURSES	DIVISIONS
Accounting	Business Administration and Economics
Art	Humanities
Biology	Science and Mathematics
Drama	Communication
Economics	Business Administration and Economics
Education—Elementary	Education and Psychology
Education—Secondary	Education and Psychology
Finance	Business Administration and Economics
French	Humanities
Geography	Social Science
German	Humanities
History	Social Science
Journalism	Communication
Language Arts	Communication, Humanities
Management	Business Administration and Economics
Marketing	Business Administration and Economics
Mathematics	Science and Mathematics
Music	Humanities
Philosophy	Humanities
Physics	Science and Mathematics
Political Science	Social Science
Psychology	Education and Psychology
Russian	Humanities
Sociology	Social Science
Speech	Communication

BACHELOR OF ARTS DEGREE IN BUSINESS ADMINISTRATION AND ECONOMICS

GENERAL COURSE NUMBERING CODE

First Digit

- 1- 99 courses which carry no credit toward a degree or a credential
- 100-299 lower division courses of freshman and sophomore level, but open also to upper division students
- 300-399 upper division courses of junior and senior level which do *not* give graduate credit toward a master's degree
- 400-499 upper division courses of junior and senior level which may give graduate credit toward a master's degree by arrangement
- 500-599 graduate courses limited to graduate students

Second Digit

The second digit is used to designate the content area of the course, with variations within each Division.

Third Digit

- 0-independent study
- 1-beginning and core courses
- 2, 3, 4, 5, 6-sequence of courses
- 7-seminars (undergraduate)
- 8-workshops
- 9-field work and directed teaching

DIVISION OF BUSINESS ADMINISTRATION AND ECONOMICS

Professors: Smith (Chairman), Carr
Associate Professors: Li, Lyons, Rizzardi
Assistant Professors: Fyfe, Graves
Vocational Instructor: Grant

Through a study of the various theoretical and practical business policies and procedures, the Division of Business Administration and Economics seeks to afford a basic education for managerial and professional positions in business, government, and education. Although emphasis is given to theory, factual content which is essential in specific vocations such as accounting, economics, finance, marketing, management, and business education is provided to enable students to enter apprenticeships in these fields with the expectation that their education should expedite their progress, either to managerial positions or to staff positions as professional accountants, economists, educators, and marketing and business consultants.

In our ever-expanding, complex society, the managers of tomorrow must be men and women with breadth of understanding and vision. Students who concentrate in a special area are encouraged to elect courses in other divisions of the college, particularly in the areas of the behavioral, social, and political sciences, and foreign languages. It is assumed that the first half of their college work toward a bachelor's degree represents a required basic education in communication, mathematics, a laboratory science, social science, and the humanities. With the broadening of our cultural and business horizons, it is desirable to become increasingly better versed in the language of our neighbors, Spanish, and in the languages, viz. French, German, and Russian. Since the understanding of mathematics is becoming increasingly important in business and the social sciences, students who contemplate enrollment in either business administration or economics are encouraged to take college algebra and calculus as preparatory subjects.

If credits for either or both elementary accounting and principles of economics have not been earned, it will be necessary to enroll in these courses the first semester of the junior year.

Students enrolled in the Division and working toward a college degree are subject to the general requirements of the college as to courses and credit hours required for graduation.

In the junior and senior years, in addition to completing the general requirements of the college and the core courses required in business administration or economics, a student must complete one of the following fields of concentration: General Business, Accounting, Business Education, Economics, Finance, Management, Marketing.

The programs outlined below lead to a Bachelor of Arts degree in either Economics or Business Administration. Students majoring in Business Education must meet the requirements of either the Division of Business Administration and Economics or the Division of Education and Psychology for their degree.

Candidates for the bachelor's degree in the Division of Business Administration and Economics are required to earn not less than 60 semester credit hours in areas other than business administration and economics. For a degree in business administration or economics, at least 50 semester credit hours in the Division are required, including the core courses listed below:

BACHELOR OF ARTS DEGREE IN BUSINESS ADMINISTRATION AND ECONOMICS

CORE: Business administration and economics courses required of all students in the Division of Business Administration and Economics.

<i>Course</i>	<i>Units</i>
Econ. 301, 302. Principles of Economics.....	6
Accounting 300A, 300B. Elementary Accounting.....	6
Econ. 321. American Economic History.....	3
Finance 331. Money and Banking.....	3
Finance 332. Business Finance.....	3
Management 341. Industrial Organization and Management.....	3
Management 346A. Business Law I.....	3
Marketing 351. Principles of Marketing.....	3
Econ. 331. Elements of Business and Economic Statistics.....	4
Management 443. Business Policies.....	3

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AREAS OF CONCENTRATION

A student should select an area of concentration by the second semester of his junior year and plan to take the required courses in it.

General Business	<i>Units</i>
Accounting 304. Managerial Accounting.....	3
Management 342. Production Planning, Layout and Control or Bus. Ad. 353 Salesmanship and Sales Administration.....	3
Management 442. Administrative Policies and Organization.....	3
Elective units in the Division.....	4 to 14

Accounting	
301. Intermediate Accounting.....	3
302. Cost Accounting.....	3
401. Advanced Accounting.....	3
Elective units in the Division.....	4 to 14

Economics	
401. Intermediate Economic Theory and Analysis.....	3
403. Comparative Economic Systems.....	3
405. History of Economic Thought.....	3
411. Business Cycles.....	3
Elective units in the Division.....	1 to 11

Finance	
304. Managerial Accounting.....	3
433. Public Finance.....	3
431. Investment Banking.....	3
432. Fundamentals of Investments.....	3
Elective units in the Division.....	1 to 11

Management	
342. Production Planning, Layout, and Control.....	3
343. Personnel Management and Human Relations.....	3
442. Administrative Policies and Organization.....	3
Elective units in the Division.....	4 to 14

Marketing	
353. Salesmanship and Sales Administration.....	3
354. Principles of Advertising.....	3
356. Economics of Consumption.....	3
452. Market Research.....	3
Elective units in the Division.....	2 to 12

Business Education Requirements:

The core Business Administration courses, plus up to 11 credits in skills subjects (typing, shorthand, office practice, etc.) taken in lower division, plus an elective course in Business Administration or economics.

MINOR IN ECONOMICS

	<i>Units</i>
Econ. 301, 302. Principles of Economics	6
Econ. 321. American Economic History	3
Finance 331. Money and Banking	3
Econ. 401. Intermediate Economic Theory and Analysis	3
Econ. 403. Comparative Economic Systems	3
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BUSINESS ADMINISTRATION AND ECONOMICS

ACCOUNTING

300A. Elementary Accounting I (3) F

Single transactions, general ledger accounts, books of original entry, closing process, trial balance, financial statements, accounting for negotiable instruments, controlling accounts, adjusting entries.

300B. Elementary Accounting II (3) F, S

Prerequisite: Accounting 300A. Relation of business documents to accounts, fundamentals of partnership and corporation accounts, business forms and records, payroll accounting, single entry, financial statement analysis.

301. Intermediate Accounting (3) F

Prerequisite: Accounting 300B. Consideration of the intermediate level of accounts and transactions peculiar to the partnership and corporate types of organization; modern basic concepts of accounting theory; interpretation of financial statements.

302A. Cost Accounting I (3) F, S

Prerequisite: Accounting 300B. The development of accounting information which will help management in the minimization of manufacturing and operating costs of business. Particular emphasis is given to standard costs as a device for cost control.

303. Governmental Accounting (3) S

Prerequisite: Accounting 300B. Accounts of institutions, municipalities, state and federal governments; organization, procedure, budgets.

304. Managerial Accounting (3) S

Prerequisite: Accounting 300B. (For students who do not intend to specialize in accounting.) Principles underlying preparation of budgets and control measures.

305. Auditing (3) S

Prerequisite: Accounting 300B. Auditing standards and procedures.

401. Advanced Accounting (3) S

Prerequisite: Accounting 301. Reserves, sinking funds, actuarial methods, investments, partnerships, statements for special purposes, receiverships, consolidated balance sheets, foreign exchange.

402. Federal Income Tax (3) S

Prerequisite: Accounting 300B. Basic discussion of the history, theory, and broad outlines of federal income taxation.

403. C.P.A. Problems and Review (3) S (on demand)

Prerequisite: Accounting 401. Selected problems from C.P.A. examinations; analysis and revision of statements, partnerships, corporations, quasi-reorganization, mergers, and others; accounting theory, auditing, and ethical considerations as they relate to management, stockholders, and the public.

ECONOMICS

301. Principles of Economics I (3) F

An introduction to the major areas of modern economic theory and public policy; the firm under varying conditions of competition and monopoly; product prices and factors which govern them.

302. Principles of Economics II (3) F, S

Prerequisite: Econ. 301. (Continuation of 301) Monetary theory and banking institutions; national income theory; international economics; public policy arising out of the structure of industry; economic stability.

321. American Economic History (3) F

Prerequisite: Econ. 302. Main events and leading personalities in the economic development of the United States; agriculture, industry, commerce, finance, transportation, the trust movement and the labor movement.

322. European Economic History (3) S

Prerequisite: Econ. 302. The evolution of the economic institutions of modern Europe in relation to the development of industry, commerce, transportation, and finance in the principal European countries.

324. Money and Banking (3) F

(Same as Econ. 331) Prerequisite: Econ. 302. A study of the United States monetary system; commercial and savings banks, the Federal Reserve System; other credit-granting and financing institutions.

325. Economics of Consumption (3) S

Analyses of populations, personal income distribution, consumption theories, savings and price movements; aggregate consumption expenditures and consumer choices.

331. Elements of Business and Economic Statistics (4) S

Prerequisite: Intermediate Algebra. Methods of collection of data, presentation, and interpretation, index numbers, time series, and simple correlation.

401. Intermediate Economic Theory and Analysis (3) F

Prerequisite: Econ. 302. A development of value and distribution; problems and policies of price determination for both the firm and the industry.

402. Advanced Economic Theory (3) S

Prerequisite: Econ. 401. Recent development in value, price, and distribution.

403. Comparative Economic Systems (3) F

Prerequisite: Econ. 302. The economics of capitalism, socialism, communism, and fascism.

404. The Soviet Economy (2) S

Prerequisite: Econ. 302. An analytical survey of Soviet economic development; structure and performance of the economy, problems of planning and control.

405. History of Economic Thought (3) S

Prerequisite: Econ. 401. A study of the development of economics; contributions of schools of thought and of individual economists as they influenced economic thought and national and international policies.

411. Business Cycles (3) F

Prerequisite: Econ. 302. Fundamental factors in business cycles and business fluctuations; study of current business conditions beginning early in the course and developing into practical application of forecasting methods.

421. International Economics and Foreign Trade (3) S

Prerequisite: Econ. 302. Elementary principles of foreign trade, principles of comparative cost, the balance of international payments, barriers to international trade, and recent developments in free trade.

451. Public Finance (3) S

Prerequisite: Econ. 302. Federal, state, local; principles of taxation; government borrowing, national debt, fiscal policy, and inter-governmental fiscal relations.

453. Economics of Public Utilities (3) F

Prerequisite: Econ. 302. Economic characteristics of utility industries; valuation, rate structure, management; state and federal regulation.

455. Government Regulation of Economic Activity (3) S

Prerequisite: Econ. 302. Analysis of the reasons for, and the impact of, regulation on various segments of business and commercial activities.

FINANCE

331. Money and Banking (3) F

(Same as Econ. 324.) Prerequisite: Econ. 302. A study of the United States monetary system; commercial and savings banks; the Federal Reserve System; other credit-granting and financing institutions.

332. Business Finance (3) F

Prerequisites: Accounting 300B and Finance 331. Types of business organization; sources of long and short-term capital.

333. Principles of Insurance (3) F

A survey course to serve as an introduction to life, fire, casualty, surety, and social insurance.

334. Life Insurance (3) S

Prerequisite: Finance 333. A study of the principles of life insurance; individual and social benefits; life insurance companies and their operations.

335. Property and Casualty Insurance (3) S

Prerequisite: Finance 333. The insurance needs of individuals and business concerns; the study of hazards, policy structures, rates; underwriting.

336. Real Estate (3) S

The survey of urban real estate theory and practice; structure and growth of cities; basis of real estate values; urban planning; zoning for commercial, industrial and residential areas, financing of real estate transactions.

431. Investment Banking (3) S

Prerequisite: Finance 332. The role of investment banking in the American economy; the relationship of investment banking to other financial institutions; regulation of investment banking and the security markets.

432. Fundamentals of Investments (3) S

Prerequisite: Finance 332. Analysis of different types of corporate securities—commercial, industrial, and public utility; the role of mutual and closed-end investment trusts. Special consideration is given to investment purposes and objectives.

433. Public Finance (3) F

(Same as Econ. 451.) Prerequisite: Econ. 302. Federal, state, local; principles of taxation; government borrowing, national debt, fiscal policy, and inter-governmental fiscal relations.

MANAGEMENT

341. Industrial Organization and Management (3) F

Prerequisite: Econ. 302. Principles of administration as applied to the organization and operation of manufacturing. Concerns elements of organization, plant location and layout, materials procurement and handling, production planning and control, salary administration, and other aspects of supervision and management.

342. Production Planning, Layout, and Control (3) S

Prerequisite: Management 341. The management of manufacturing activities; a survey of the internal operation of factories; research and design of products, plant facilities and layout; inventory and production control, purchasing, and materials handling; safety; production standards and wage incentives; motion and time study; quality control and product inspection.

343. Personnel Management and Human Relations (3) F

Prerequisite: Management 341. An introduction to the organization, training, motivation, and direction of employees with consideration to productivity and worker morale. Among specific topics covered are selection, training, compensation, work standards, performance appraisal, supervision, and leadership.

344. Procurement and Purchasing (3) S

Prerequisite: Marketing 351. Policies for purchasing raw materials, parts, supplies, and finished goods for manufacturing operations, for commercial uses, and for the wholesale and retail trade; buying procedures, inventory control, vendor relations, legal problems, quality control, and financing.

346A. Business Law I (3) F

The philosophy and role of law as it applies to business operations; the fields of contracts, agency, sales, and personal property; conditions under which professional legal advice should be sought.

347. Business Law II (3) S

Bailments, sales, negotiable instruments, business organizations, and allied materials.

441. Management-Union Relations (3) S

Prerequisite: Management 341. Provides interpretation and understanding of the impact of management and union institutions on employee relations. Topics considered are labor union structure, aims and operations; management objectives and functions; collective bargaining agreements; wage bargaining; industrial conflict and dispute settlements; labor relations legislation and public intervention in management-union disputes.

442. Administrative Policies and Organization (3) F

Prerequisite: Management 341. Development of administrative organizations and the determination of policies for the integration of major activities of a business enterprise.

443. Business Policies (3) S

Prerequisites: Finance 331, Management 341, and Marketing 351. Using the case method, the course involves accounting, finance, production, marketing, and organization and administration; its objective is to show the need for understanding the different facets of a business.

445. Transportation and Traffic Management (3) F

Prerequisites: Management 341 and Marketing 351. The economics of transportation; classification and rate structure, functions and duties of a traffic manager.

MARKETING

351. Principles of Marketing (3) F

Prerequisite: Econ. 302. The prevailing methods of marketing as they apply to consumers' goods, producers' goods, and raw materials; marketing institutions; marketing functions; merchandising; price policies.

352. Principles of Retailing (3) F

Prerequisite: Marketing 351. Types of retail stores; location; buying; pricing; merchandising; display; operating procedures—planning, budgeting, and costs.

353. Salesmanship and Sales Administration (3) S

Prerequisite: Marketing 351. Personal selling; selling techniques and strategy; investigation by case studies of major problems facing the sales executive, including product planning, market analysis and sales potentials; sales promotion; sales organization, involving the recruitment, hiring, training, supervision, evaluation, and control of sales personnel.

354. Principles of Advertising (3) S

Prerequisite: Marketing 351. Fundamentals of advertising and techniques in planning and directing advertising programs.

355. Credit and Credit Administration (3) F

Prerequisite: Marketing 351. The general nature and functions of credit; credit instruments; the credit executive; operation of the credit department; source of credit information, acceptance of credit risk; establishment of credit limits; collections.

356. Economics of Consumption (3) F

(Same as Econ. 325). Analyses of population, personal income distribution, consumption theories, savings and price movements; aggregate consumption expenditures and consumer choices.

451. Marketing Problems (3) S

Prerequisite: Marketing 351. Case studies of problems facing the marketing executive; identification of the problems; procedures to be adopted to find satisfactory solutions. Cases will encompass market research, distribution, merchandising, sales management, and allied problems.

452. Market Research (3) S

Prerequisite: Marketing 351. Techniques of planning, research, and analysis as an aid in solving product development, promotional, and distribution problems. Practical application is emphasized through class projects and case problems.

453. Sales and Distribution Cost Analysis (3) S

Prerequisite: Marketing 351. Cost factors covering distribution through different channels of distribution; exclusive, selective, and general distribution analyzed; location cost vs. advertising cost; factors governing allocation of sales budget to personal selling and advertising; sources of information as to standard costs in different lines.

456. International Economics and Foreign Trade (3) S

(Same as Econ. 421.) Prerequisite: Econ. 302. Elementary principles of foreign trade, principles of comparative cost, the balance of international payments, barriers to international trade, recent developments in free trade.

DIVISION OF COMMUNICATION

Professor: Fessenden (Chairman)

Associate Professors: Carmody, Long, Maxwell, Young

Assistant Professor: Alexander

Instructor: Granell

Communication serves both for the individual and for society. As a social process, it deals with the relationships among people and is influential in the changes in behavior that take place. As a personal process, it involves the feelings, ideas, and attitudes of people and the adjustments that serve to satisfy the goals individuals set for themselves and others.

The Division of Communication brings together some of the media and methodologies that are of greatest importance in establishing the relationships and understanding, which can be attained through the use of language. Communication in this linguistic, inter-personal setting is not a one-way process; it is an alternating process, always adjusting to meet new responses.

As a form of behavior, good communication requires the use of adequate and acceptable information and evidence, is effectively presented orally or through writing, is well organized, is meaningful, is socially responsible, and is skillfully received, interpreted, and perceived.

The several methodologies of this Division individually and in unity are devoted to the growth and development of the individual as an understanding and understood member of his society through his effective use of oral and written English.

BACHELOR OF ARTS DEGREE IN LANGUAGE ARTS

Beginning in the fall of 1960, the speech-drama curricula will be related with the general broad area of language arts. The major program to be offered in language arts beginning in the fall of 1960 will incorporate public address, oral reading, speech correction, and dramatic art as a single unit. The program will consist of 36 units, at least 24 of which must be in the upper division, in speech-drama, and a composite minor of 20 units, at least 11 of which must be in the upper division, in one or more of the other fields in language arts.

SPEECH-DRAMA MAJOR IN LANGUAGE ARTS

Lower Division, 12 units maximum toward Major.

Required: One or more courses in Platform Speaking or speech fundamentals; one or more courses in Oral Reading or Dramatic Art.

Upper Division, 24 or more units to total 36 units in the field of speech-drama.

Required: A minimum of 18 units in one of the following groups, and one course in two others.

Public Address

Speech and speech evaluation

Argumentation and debate

Persuasion

Conference speaking

Business and professional speaking

Advanced platform speaking

Discussion and group leadership

American public address

Intercollegiate forensic activities

Oral Reading

Voice and Diction
Oral reading
Advanced oral interpretation
Reading Theatre

Speech Correction and Audiology

Audiometry
Phonetics
Speech for Teachers
Speech problems of children
Advanced speech correction
General Semantics
Cleft Palate Seminar

Dramatic Art

Experimental Theatre I, II
Dramatic activities in the elementary schools

Composite Minor for Speech-Drama Major in Language Arts

Lower Division, 9 units in one or two of the following:

Journalism
Literature
Advanced composition or Creative writing
Foreign Language

Upper Division, 11 or more units in any one or two of the fields listed above.
Electives in related areas to complete the degree requirements.

SPEECH-DRAMA**311. Oral Reading (3) F**

The principles and practice of reading aloud from the printed page. Analysis of selections from prose and poetry is emphasized. The development of voice control and the techniques by which the selections are given effective interpretation are studied and practiced.

314. Reading Theatre (3) S

An advanced activity course in oral interpretation in which the emphasis is based on group reading or dramatic literature. Preparation for public presentation will be stressed.

318. Performance (no credit) F, S

Appearances by student performers before student and outside lay audiences. Opportunities for experience in increasing audience-appearance-skills. By arrangement of instructor.

332. Speech and Speech Evaluation (2) F

The development of critical listening and the methods used in constructive evaluation of speeches. A course in speech criticism using student speeches as examples and practice.

333. Business and Professional Speaking (2) S

Emphasis is placed on an understanding of and the practice of speech in non-academic situations. Particular attention is given to the interview, sales talk, and performance on special occasions—including introductions, goodwill talks, and information giving.

334. Persuasion (3) S

The study of certain psychological factors as they apply to public address. This includes audience analysis and the use of persuasive techniques to influence the belief and conduct of groups and individuals.

335. Argumentation and Debate (3) F

The principles of argumentation as they can be applied in both formal and informal debate. Directed study and practice of logic, reasoning, and the identification as well as the refutation of fallacies in reasoning. Experiences with various forms of debate are provided.

338. Intercollegiate Forensic Activities (1) F, S

Directed activity in debate and other forensic events. Participation in intercollegiate competition is required for credit. (Can be repeated for a total of four hours.)

378A&B. Experimental Theatre I and II (3-3) F, S

An activity course. Styles of acting, directing, and staging are explored with emphasis determined by the past experience and needs of the individual member of the class. (six hours of class)

404. General Semantics (2) S

Examination of the basic principles underlying the influence language has on human action and interaction.

422. Conference Speaking (3) F

Conference development and leadership and the methods by which groups can give effective public expression to their thinking are examined and practiced. Socio-dramatic as well as other forms of panel and symposium procedures are considered.

424. Discussion and Group Leadership (3) S

The principles and practice of small group discussion as an essential tool in a democracy. Emphasis is placed on problem solving through good group interaction in education, business and industry, research, and community affairs. The basic concepts of general semantics and group dynamics as applied in membership and leadership development are studied and practiced.

432. Advanced Platform Speaking (3) F

Certain basic and advanced principles of modern rhetorical theory and the development and presentation of talks designed to achieve specific purposes.

434. American Public Address (3) S

A rhetorical history of the United States from the colonial period to the present. A study of the leading speakers: their addresses and their religious, political, and social ideas.

SPEECH EDUCATION

301. Speech for Teachers (3) S

Four general areas of speech which relate directly with teaching proficiency are examined: the speech of the teacher; the speech and hearing problems of children; the use of speech as a teaching device; and the speech student and teacher use in public appearances.

302. Voice and Diction (2) F, S

Provides for speech improvement of the individual student through the study and practice of correct sound formation, voice production, pronunciation, and manner of speaking.

308. Speech Improvement Laboratory (no credit) F, S

For those students, especially in education, whose language proficiency is inadequate and who need special clinical help. Emphasis on individual work in laboratory.

401. Speech for Elementary Teachers (2) F

Designed for students with at least two years of elementary teaching experience. Four general areas of speech which relate directly with teaching proficiency are examined: the speech of the teacher; the speech and hearing problems of children; the use of speech as a teaching device; and the speech student and teacher use in public appearances.

402. Dramatic Activities in the Elementary Schools (2) S

A course to develop skills in the use of creative dramatics, story-telling, puppetry, assembly programs, role playing, and other phases of dramatics as tools for the teacher and for the students in the elementary school classroom.

SPEECH THERAPY

341. Phonetics (2) F

The phonetic basis of speech sounds and the various factors influencing articulation and pronunciation. Ear training and discrimination among patterns of speech are promoted through the use of the International Phonetic Alphabet.

441. Speech Problems of Children (3) S

A beginning speech correction course by which elementary teachers can recognize and deal with speech problems experienced by the children in their classes. Identification of problems, basic help, referral to speech specialist, parent conferences, mental health, etc.

442. Advanced Speech Correction (3) F

Etiologies, diagnosis, and remedial procedures of such speech defects as articulation and voice (both functional and organic) and certain major disorders including stuttering, cleft palate, cerebral palsy, and aphasia.

457. Cleft Palate Seminar (2) S

The physiological and psychological aspects of cleft palate children which includes clinical work, hospital visitations, and principles of parent counseling.

461. Audiometry and Aural Rehabilitation (3) F

Equipment, principles, methods, and procedures used in establishing and conducting public school hearing conservation programs. Attention is given to techniques of audiometric testing and use of audiograms, principles, and methods of hearing conservation; psychology of the acoustically handicapped child; relationship between speech and hearing; hearing aids and their use; care and use of group and pure-tone audiometers. Consideration is also given to the physics of sound, anatomy, and pathology of the ear and the physiology of hearing. Meets the state requirement for public school audiometrist.

JOURNALISM

330. Introduction to News Communication (3) F

An introduction to news and feature writing in the field of journalism through a study of the various communication media. Practical experience in news writing. Assignments are given for work on the college newspaper.

338. Newspaper Production (3) F

Prerequisite: Permission of instructor. A lecture and activity course in which members of the class constitute the editorial staff of the student newspaper. The group meets Tuesday and Thursday for 2 hours each day for critiques in news reporting, writing, editing and makeup, followed by production. (4 hours per week)

DIVISION OF EDUCATION AND PSYCHOLOGY

Professors: Doane (Chairman), Allen, Beals, Bridgman, Carr, Ehmann, Hartsig, Lay, McComb

Associate Professors: Croy, Hill, Pastor, Stanley, Turner

Assistant Professors: Hoff, Jones, Spolyar

Instructor: Bristow

ADVISEMENT FOR STUDENTS SEEKING A CREDENTIAL

Advisement is available to any student seeking a public school credential and/or a degree in Education. Prior to registration, a student should consult an adviser in the Division of Education and Psychology who will help him to select courses and build his program. A student from another institution should bring transcripts of previous work and a tentative selection of courses. Full responsibility for meeting all requirements set forth in the catalog will remain with each student.

During the student's first semester after matriculation, he will receive from the Office of Admissions an evaluation of his credits which will list the requirements he must meet in earning the credential and/or the degree he has listed as his objective. If a student changes his degree or credential goal, he must have an evaluation for each credential. The evaluation will serve as a guide for the student and the adviser in planning a complete program. Any deviation from this evaluation must be approved through written petitions submitted to the Chairman of the Division of Education and Psychology. Transferred courses must be of upper division level and taken within the past 15 years to be applicable to upper division credential requirements.*

ADMISSION TO TEACHER EDUCATION

Admission to Orange County State College does not constitute admission to the teacher education program. In order to become a candidate for a teaching credential, the student must be matriculated, in good standing, and must file an Application for Admission to the Teacher Education Program in the office of the Chairman of the Division of Education and Psychology. This application should be filed during the first semester of the junior year or as soon thereafter as he is admitted to the college.

The committee on Admission to Teacher Education considers the application of each candidate. Students should normally qualify for admission and are advised of their acceptance during their second semester of the junior year or their first semester of attendance if they enter in a more advanced status.

Admission to Teacher Education is required of all candidates seeking admission to Directed Teaching, either Elementary or Secondary.

It is the student's responsibility to arrange to take the required battery of tests which enable the college to identify those candidates who meet the California Education Code requirements of competency.

Students entering the education program as juniors, or those who enter as seniors or graduates who have had no previous courses in education, normally take Education 311, Psychological Foundations, during their first semester. Arrangements are made in conjunction with this course for taking the required test sequence. Those students who do not take Education 311 at the usual time or who have had the equivalent of this course make arrangements for taking the tests through the office

* Selected courses completed in lower division at institutions outside of the State of California may be applied to professional education credential requirements.

of the Coordinator of Elementary Education or the Coordinator of Secondary Education. These tests include, in addition to the College Entrance Test:

1. Skills in communication: i.e., reading, writing, and speech.
2. Health examination, which includes hearing test and chest X-ray.

In addition, the student is evaluated on personality and character traits in keeping with the standards of the teaching profession. Specific attention is directed to physical appearance, poise, dress, mental and emotional stability, integrity, etc. A candidate is also expected to demonstrate diverse and well-balanced interests.

Students who show weaknesses in any of these areas are advised of their standing. If there are weaknesses in only one or two of these areas: reading, speech, writing, or mathematics, they will be advised of the availability of remedial courses and given a specified period of time in which to raise their level of competence to meet the standard.

Students with more serious weaknesses must consult with an adviser to plan a program, including provision for remedial work, and an agreed upon period of time for meeting the admission requirement.

If the deficiencies are severe, the committee will deny the student admission to the Teacher Education Program.

CONTINUING EVALUATION

Admission to Teacher Education is the first step in a cumulative and continuing evaluation of a candidate's fitness to teach. In addition to meeting the admission requirements, the student must demonstrate:

1. *Scholarship.* A grade point average of 2.5 in Orange County State College work is required of all elementary and secondary credential candidates. Grades in all Education courses must be C or better; this also includes professional courses required in the teacher-education-credential sequence, that are not designated as education courses, such as art, music, and physical education methods, courses, and others.

2. *Academic and Cultural Preparation.* Competence is required in all subjects or skills for which the candidate is seeking a credential. For the elementary candidate this includes all subjects and skills commonly taught in the first eight grades of the public schools. Elementary candidates are urged to include at least three units of art and three units of music in their lower division program. Some music skill is required of all elementary candidates. Secondary candidates must meet the proficiency requirements for their teaching major and /or minors as specified by academic divisions.

3. *Personal Fitness.* Students must possess personal qualifications in keeping with good professional standards. All instructors at Orange County State College are asked to participate in continuing evaluation of students in relation to those aptitude, personality, and character traits which are considered essential to admission to the teaching profession. Establishment of such personal qualification may require, in addition to the ratings by instructors, an interview with a selected committee. Attention will be directed to general appearance, dress, vitality, poise, temperament, integrity, and social attitudes.

DIRECTED TEACHING

Each candidate for the general elementary credential will do his directed teaching in the last semester he is in the teacher education program at Orange County State College. Each candidate for the general secondary credential will do his directed teaching during the graduate year. Directed teaching assignments are made in the elementary and secondary schools of districts geographically accessible to the college. Because of the amount of time and work required of the student in directed teaching, he is encouraged to restrict his enrollment to no more than 12 units in

the semester in which he is doing directed teaching, including the units earned in directed teaching. Heavy out-of-school workloads are strongly discouraged.

Application for directed teaching shall be made to the appropriate Coordinator of Directed Teaching during the time specified in the Class Schedule. Each applicant must meet the following requirements:

1. Must have been admitted to the teacher education program.
2. Must have met all scholarship, academic and cultural preparation, and personal fitness qualifications listed under continuing evaluation.
3. Must have a satisfactory record on the health examination as made or approved by the College Health Center.
4. Must have completed a minimum of 12 units of work at OCSC.
5. Must have completed course prerequisites as listed in the course description.

PERMISSION TO SUBSTITUTE TEACHING EXPERIENCE FOR DIRECTED TEACHING

A candidate for a teaching credential, who has had teaching experience, must petition the Division of Education and Psychology, through his adviser, to substitute an equivalent number of units in elective courses for directed teaching. Such substitution will be considered only if the student:

1. Has been admitted to the teacher education program.
2. Has met the scholarship, academic and cultural preparation, and personal fitness qualifications as outlined under continuing evaluation above.
3. Has submitted an official verification from his former supervisor, principal, or superintendent to the Office of Admissions of the college certifying at least two years of successful regular teaching experience.
4. Has had teaching experience that is equivalent in grade level, size of class, nature of duties, and kind of school to that required of teacher education candidates of the college.

PROVISIONAL CREDENTIAL RENEWAL

Orange County State College is prepared to cooperate with students seeking renewal of provisional credentials. However, a letter of recommendation to the State Department of Education will be written for the student only if the following conditions have been fulfilled:

1. The applicant has been admitted to the Teacher Education Program.
2. The applicant has completed the semester unit requirements established by the State Department of Education, at least six units of which must have been completed at Orange County State College.

Detailed requirements for credentials and degrees, both bachelors and masters, are being developed by the faculty at this time and will be available to students upon request as soon as completed.

BACCALAUREATE AND CREDENTIAL PROGRAMS IN ELEMENTARY EDUCATION

The Bachelor of Arts program in Elementary Education at Orange County State College includes all the requirements for the General Elementary Credential. **NO BACHELOR OF ARTS DEGREE WITH A MAJOR IN ELEMENTARY EDUCATION MAY BE GRANTED UNLESS THE CANDIDATE HAS COMPLETED ALL REQUIREMENTS FOR THE GENERAL ELEMENTARY CREDENTIAL.**

Students possessing an acceptable Bachelor's degree who are seeking a General Elementary Credential only and who intend to do their directed teaching at Orange County State College must have completed all the requirements in education courses in the Bachelor of Arts degree program before admission to directed teaching. At least 12 of the units in education must have been completed at Orange County State College.

Students with a Bachelor's degree and teaching experience who wish to meet specific state subject requirements for the General Elementary Credential may do so through the following courses at Orange County State College:

California State Requirements	Orange County State College Courses Which Meet These Requirements
1. Principles and Curricula of Elementary Education	Education 431 or Education 331
2. Elementary methods in basic subjects	Education 331, 432MA, 432LA, 432R, 432SS, 432Sc
3. Child Growth and Development	Education 311, 312
4. Audio-Visual Education	Education 331, 491

All students should apply directly to the State Department of Education for their credentials. Transcripts from each institution attended must be included with the application.

THE NEW CREDENTIAL STRUCTURE FOR ELEMENTARY TEACHERS

The program leading toward the General Elementary Credential concentrates decidedly on the liberal education of elementary school teachers, their breadth and depth of knowledge and understanding, their need for academic and professional background. To accomplish this, Orange County State College asks its elementary teacher candidates to complete a concentration in a liberal arts field or its equivalent, in addition to taking work in professional courses leading to the teaching credential. These requirements will obtain for students entering Orange County State College in the fall of 1960.

OCSC's program will follow the new credential structure for California. The California State Board of Education, at its meeting in Sacramento, February, 1960, officially approved new standards for the certification of professional employees for California public schools. These standards will be employed as the basis for completing a new credential structure for California, which will go into effect in the very near future. California expects that at least five years of collegiate or university preparation, including general education, subject matter concentration, and professional education, is needed to prepare teachers to assume their professional responsibilities in the public schools.

Students at OCSC should be prepared for the possibility that college may take them longer than a total of four years to complete, although careful planning and distinguished performance may allow completion within the traditional time span.

The State Board of Education expresses the standards as follows:

The Standard Teaching Credential endorsed for elementary teaching may be issued upon the completion of:

1. a properly executed application;
2. an acceptable bachelor's degree;
3. a year of postgraduate work;
4. a professional education program including directed teaching in the elementary grades of the public schools or its equivalent in teaching experience in the public or private schools of equivalent status;
5. an appropriate academic subject matter major; and
6. an appropriate academic subject matter minor or preparation in a specialized area.

EDUCATION AND PSYCHOLOGY—ELEMENTARY

311. Psychological Foundations of Education (6) F

The basic psychology course in teacher education. Required of all teaching credential candidates who have not previously had education courses. Includes all subject areas needed by students beginning their upper division professional education. Satisfies state requirements for educational psychology or learning processes, human growth and development, counseling and guidance of pupils, and mental hygiene. Studies the society in which children grow. Involves observation of children and youth, testing of enrollees for teaching fitness as required in the Credentials Selection Program, and opportunities for enrollees to develop their own personality dynamics in terms of teaching effectiveness and personal relationships to children and youth. May be repeated after one year and by permission of the Division of Education and Psychology.

312. Human Growth and Development (3) F

A comprehensive study of human growth and development with emphasis on childhood, adolescence, and middle and old age. Includes mental, social, emotional, and physical development.

331. Elementary School Principles, Curricula, and Methods (8) F

Prerequisite: Psychological Foundations of Education. Principles, curricula, methods, and materials of elementary school instruction, with major emphasis on reading, language arts, arithmetic, social studies, and science. Includes audio-visual instruction, methods, and techniques. Students are expected to observe and participate in selected elementary school classrooms as planned by the instructor. Required of all candidates for the general elementary credentials, or its equivalent. Lecture and laboratory.

332. Industrial Arts for Elementary Teachers (2) F

For the upper division student or elementary teacher who desires experiences in selecting, organizing, and using materials and tools in construction activities correlated with social studies, science, and other units of work. (1 hr. lecture, 2 hrs. activity per week)

339. Elementary Schools Directed Teaching and Directed Teaching Seminar (10) F

Prerequisites: Psychological Foundations of Education and Elementary School Principles, Curricula, and Methods, or their equivalent: Elementary School Art, Music, and Physical Education Methods. Additional prerequisites: satisfactory accomplishment in special tests in speech, reading, written language, health, verbal, and qualitative skills. Any deficiency must be made up by class instruction and/or other requirements. Directed teaching for elementary education credential. Participation in a regular elementary school teaching program for the greater part of every school day. Includes a two-hour seminar each week in problems and procedures of elementary school teaching. Concurrent enrollment in education courses is discouraged.

351. Principles of Guidance (2) F

The relationship of counseling and guidance to educational objectives and needs of youth. Study of special needs created by size and complexity of the modern educational system and modern society; general requirements, services, organization, and structure of a successful guidance program; counseling service; and services to students and administration.

431. Principles and Curricula of Elementary Education (2) F

An introductory course in elementary education which introduces the student to various aspects of the teaching profession. Stress will be on attempting to define major principles of education and indicating basic curricular considerations. Particular emphasis will be made to portray the importance of the elementary school system to society.

432A. Elementary School Art (Methods) F (Same as Art 471)

432LA. Elementary School Language Arts (2) F

The importance of the language arts to a satisfactory personality, social, and professional life. Methods to help develop in children the skills needed for listening, speaking, and writing are studied and their effectiveness evaluated. (Reading is offered in a separate course.)

432MA. Elementary School Arithmetic (2) F

Objectives, content, materials, pupil experiences, methods of instruction, and evaluation in arithmetic. The nature and scope of arithmetic in the elementary school. Historical development of notation and numeration.

432MU. Elementary School Music (2) F (Same as Music 451)

432PE. Elementary School Physical Education (2) F

Physical education techniques and materials for elementary school teachers. Methods of teaching games, sports, rhythms and dances commonly taught in elementary schools. Observation and laboratory practice included. (2 hr. lecture, 2 hr. activity)

432R. Elementary School Reading (2) F

The nature of the reading process, the development of reading skills at various levels, and the relationship of the developmental reading program to child growth and development.

432Sc. Elementary School Science (2) F

The nature and place of science in the elementary school program without an exhaustive treatment of any specific phase of science. Intended to supply enough ideas and materials so that the teacher can help the children look at the world about them in a scientific manner. Five areas of science will be considered: plant and animal life; earth and sky; matter and energy; conservation; and health and safety. (1 hr. lecture, 2 hrs. activity per week)

432SS. Elementary School Social Studies (2) F

Understanding the need of social studies education for our children; evaluating the purpose of social studies in this atomic age, and techniques and methods of teaching a thorough knowledge of democracy. Emphasis will be given toward gaining knowledge and better understanding of the current practices and philosophy of elementary school social studies.

437. Seminar for Elementary Education (3) F

451. Tests, Measurements and Evaluations (2) F

The historical development and current thinking in the field of measurement. Construction and use of informal and standardized tests. Summarization and interpretation of test results.

471. Gifted Children (2) F

Identifying gifted and more able learning children. Guidelines for meeting their needs, effective ways of grouping, the meaning of individualized instruction, and classroom enrichment procedures. Emphasis is on problem solving and research experiences in science, social studies, and mathematics. Self-elective reading programs and ways to extend interests in literature. Techniques for developing creative writing and oral language projects. Working with community and parent groups.

472. Education of Exceptional Children (2) F

Prerequisites: Growth and Development, Principles of Curriculum, and Basic Methods. The psychology and education of children who deviate from the average in the elementary and high school: physically handicapped, mentally retarded, gifted, socially maladjusted, emotionally disturbed, and delinquent. Special educational services, curriculum, procedures, and materials necessary to promote their

maximum development. Course is applicable to requirements for the credentials to teach exceptional children and the pupil personnel services credential.

491. Audio-Visual Methods (2) F

A lecture-laboratory demonstration of equipment and materials for use in the classroom: movie projector, flannel board, filmstrips, models, tape recorder, television, etc. Assistance will be given to teachers and future teachers in how to devise their own effective audio-visual aids from the available materials in the classroom. (1 hr. lecture, 2 hrs. activity per week)

EDUCATION AND PSYCHOLOGY—SECONDARY

311. Psychological Foundations of Education (6) F

(See Education and Psychology—Elementary, for course description.)

312. Human Growth and Development (3) F

(See Education and Psychology—Elementary, for course description.)

351. Principles of Guidance (2) F

(See Education and Psychology—Elementary, for course description.)

401. History and Philosophy of Education (3) F

Historical development of education with special emphasis upon the basic ideas expressed in various types of educational practice. Special attention is paid to the representative philosophies underlying education, both from the standpoint of the individual and of society.

441. Principles and Curricula in Secondary Education (2) F

Prerequisite: Psychological Foundations of Education. Principles and philosophy of secondary education in the United States; organization, curriculum, evaluation, and teaching practices for secondary schools. Observation-participation in junior and senior high school.

Secondary Methods in: (2 each) F

442Sc—Science

442LA—Language Arts

442Bu—Business

442SS—Social Science

442PE—Physical Education

Prerequisites: Psychological Foundations of Education; Principles and Curricula in Secondary Education. A series of professional courses intended for prospective secondary school teachers in indicated subject fields. Each course will include consideration of objectives, methods, materials, and problems involved in teaching in the particular field; observation in junior and senior high school. Each candidate for a secondary credential must complete appropriate methods course in his major and minor. The methods course should be taken prior to the directed teaching course.

547. Seminar in Secondary Education (3) F

Identification of persistent problems in secondary education and survey of the literature relating to these problems; causes of and solutions for these problems. Emphasis is given to the application of the scientific method to educational problems, to acquaintance with reliable sources of educational research, and to techniques of cooperative thinking.

549. Directed Teaching for General Secondary (3-3) F, S

Prerequisites: Introduction to Credential Programs, Psychological Foundations of Education, and Principles and Curricula in Secondary Education. The following

courses must be taken prior to, or concurrently with, Directed Teaching: Fundamentals of Counseling and Guidance, Audio-Visual Instruction, Secondary Methods, Problems in Secondary Teaching. Directed teaching is the culminating experience in the prospective teacher's professional training. Directed teaching is done under the daily supervision and guidance of a qualified training teacher regularly employed in secondary teaching. A designated member of the college staff also assists in general supervision and counseling. Both city and county schools cooperate in the directed teaching program.

549A. Problems in Secondary Teaching (1-1) F

Prerequisites: the same as those for Directed Teaching. To be taken concurrently with Directed Teaching. Consideration of classroom problems arising in connection with student teaching and of over-all problems which arise as a part of a teacher's total school responsibility.

PSYCHOLOGY

411. Educational Psychology (3) F

Application of psychological research and theory to the educative process. Major attention is given to the problems of learning, individual differences, child capacities, and behavior as these appear in the school environment. (Not open to students who have taken Psychological Foundations of Education.)

421. Physiological Psychology (3) F

Prerequisite: consent of the instructor. A survey of the relations between behavior and biological processes. Attention to the anatomy and physiology of the nervous system, the role of neural and humoral agents in perception and complex behaviors (learning, etc.), behavioral effects of brain lesions, and the effects of drugs on behavior.

441. Abnormal Psychology (3) F

A study of the nature and development of the major and minor disturbances which result in a person's failure to fit adequately in his society. Includes discussion of contemporary theories of personality development as well as clinical description of neuroses and psychoses. Possible field trips.

471. Industrial Psychology (3) F

Prerequisites: General Psychology. Personnel problems, psychological aspects of labor, environmental and general motivational influences on productivity and job satisfaction.

DIVISION OF HUMANITIES

Professors: Heavenrich, Landon

Associate Professors: Alamshah, Becker, Dietz, Mathieu, Ramsay, Thorsen

Instructors: Jamgotch, Michalsky

The Humanities Division of the college mirrors those studies which reflect what is culturally valuable in the symbolic and valuing activities of mankind. The heritage of Music, Art, Language, and Philosophy stands as a living reminder that human experience signifies the creative activity of forming impression into expression, of seeking what is ideal as well as what is real in experience. The Humanities curriculum is founded on the belief that human beings are motivated by what they may become as well as what they are; that civilized man seeks nurture of spirit as well as sustenance of body; that the pursuit of excellence requires an effort to refine experience as well as the effort to define and describe it; that the study of the Humanities stands as a needed force and inspiration in the progress of mankind.

The faculty, therefore, conceives its aims to be the improvement of man's relation to man and of the individual to himself; competent instruction in languages and literature which comprise world culture; joint effort with the faculty as a whole to achieve the broadest possible development of all who come to the college for instruction and guidance; the active pursuit of Beauty in all its forms. To this end, instruction in the Humanities is conceived as a need of, as well as a complement to, general education and the discipline of the physical and social sciences.

The faculty is deeply convinced that the type of education called Liberal Arts is the best conceived by the mind of man and that the studies called the Humanities are an integral part of such an education. The faculty stands committed to the education of students for the teaching profession, for graduate study, and for a humane approach to life and living.

BACHELOR OF ARTS DEGREE IN LANGUAGE ARTS (Literature and Composition)

RECOMMENDED MAJOR PROGRAM (24 units required)

Basic Core Requirements (12 units required)		<i>Units</i>
322A,B. American Literature I, II (3,3)	.....	6
432A. Shakespeare's Major Plays	.....	3
434, 435. Chaucer or Milton	.....	3
		12
Period Courses (6 units required)		
432B. Shakespeare and Contemporaries	.....	3
342. 18th Century English Literature	.....	3
343. Romantic Literature	.....	3
442A. 20th Century American Literature	.....	3

Specialized Courses (6 units required)**Units**

466A,B.	20th Century Poetry I, II	3,3
462A,B.	20th Century Novel I, II	3,3
464A,B.	20th Century Drama I, II	3,3
454.	History of the English Language	3
452A,B.	Advanced Language Analysis I, II	3,3
312A,B.	Advanced Expository Writing I, II	3,3
314A,B.	Advanced Creative Writing I, II	3,3
324A,B.	World Literature I, II	3,3
372.	The Bible as Literature	3
497A,B.	Senior Seminars I, II	3,3

LANGUAGE ARTS**301. World Drama (3) F**

Selected tragedies and comedies from the world's literature, with emphasis upon the human problems depicted therein and upon the timelessness of certain themes. A general education course in literature, philosophy, and the arts.

322A. American Literature I (3) F

American literature to 1900. Featured authors are Franklin, Jefferson, Irving, Hawthorne, Melville, Whitman, Twain, and Dickinson. Other authors are extensively read as they bear upon the development of the American mind.

322B. American Literature II (3) S

Lectures, readings, and discussion centered upon the outstanding American writers since 1900.

324A. World Literature (3) F

The ancient foundations of both Oriental and Western literature and Medieval and Renaissance literature. The main stream of world culture, as evidenced in literary masterworks, will be studied.

324B. World Literature II (3) S

Continuation of the study of major literary works and their influence on world culture patterns since the Renaissance.

373. Russian Literature and Culture (3) F

Survey of Russian literature (read in English) and a survey of the characteristics of the cultural area which the literature reflects.

For. Lang. 411. Foreign Language Teaching in Public Schools (2) F

The problems of teaching foreign languages at all levels: methods and objectives in elementary schools; technique and sources for classroom and supplementary use. Designed particularly for teachers engaged in public school foreign language work.

432A. Shakespeare's Major Plays (3) F

Julius Caesar, Hamlet, Lear, Othello, Anthony and Cleopatra, Richard III, The Tempest, and the *Merchant of Venice* are studied extensively.

434. Chaucer (3) S

A study of the selected works of Chaucer.

462A. 20th Century British and American Novels I (3) F

The development of the modern British and American novel with special emphasis on the novel as a commentary on, and reflection of, contemporary life in these two countries.

464A. 20th Century British and American Drama I (3) S

The development of modern British and American drama as reflected in the works of selected playwrights representative of these two countries.

LANGUAGE ARTS COURSES TO BE OFFERED DURING 1961-62

312A.	Advanced Expository Writing I
312B.	Advanced Expository Writing II
314A.	Advanced Creative Writing I
314B.	Advanced Creative Writing II
342.	18th Century British Literature
343.	Romantic Literature
372.	The Bible as Literature
432B.	Shakespeare and Contemporaries
435.	Milton
442A.	20th Century American Literature I
452A.	Advanced Language Analysis I
452B.	Advanced Language Analysis II
454.	History of the English Language
455.	The Science of Language *
462B.	20th Century British and American Novel II
464B.	20th Century British and American Drama II
466A.	20th Century British and American Poetry I
466B.	20th Century British and American Poetry II
497A.	Senior Seminar I
497B.	Senior Seminar II

* Title tentative.

RECOMMENDED LOWER DIVISION COURSES IN MUSIC

<i>Freshman Year—1st Semester</i>	<i>Units</i>	<i>Sophomore Year—1st Semester</i>	<i>Units</i>
Musicianship I	2	Musicianship III	2
Music Theory I (Harmony)	3	Music Theory III (Harmony)	3
Piano	1	Piano	1
Voice	1	Voice	1
String Instruments	1	Brass Instruments	1
Required—Elective Courses:		Required—elective courses	8
General Education and Liberal			
Arts, Science Requirement	8		16
Music Electives (Applied Music,		<i>Sophomore Year—2nd Semester</i>	
appreciation, theory, ensem-		Elementary Counterpoint	2
bles)	—	Piano (pass proficiency test) *	1
	16	Voice (pass proficiency test) *	1
		Percussion Instruments	1
		Required—elective courses	11
			—
			16
<i>Freshman Year—2nd Semester</i>	<i>Units</i>		
Musicianship II	2		
Music Theory II (Harmony)	3		
Piano	1		
Voice	1		
Woodwind Instruments	1		
Required—Elective Courses	8		
	—		
	16		

* Proficiency test to be given by OCSC, required for junior standing.

UPPER DIVISION SEQUENCE OF COURSES IN MUSIC

<i>Junior Year—1st Semester</i>	<i>Units</i>	<i>Junior Year—2nd Semester</i>	<i>Units</i>
441A. History and Literature of Music I	3	441B. History and Literature of Music II	3
421. Form and Analysis	2	Adv. Theory (Elective from 425, 422A. Composition I	2
471. Applied Music (Voice or Major instrumt.)	1	Comp. 422B, Cntrpt 424 or Orchestration I 423)	2
481A. String Instruments *	1-2	491. Choral Conducting	2
411. Music Activity: (Major Ensemble)	1	471. Applied Music (Voice or Major instrumt.)	1
412. Music Activity: (Minor Ensemble)	1	481B. Woodwind Instruments *	1-2
College Academic requirements and electives	4-5	411. Music Activity: (Major Ensemble)	1
440A. Concert Music (Att. at specified concerts)	0	412. Music Activity: (Minor Ensemble)	1
—	16	College Academic requirements and electives	4-5
		440B. Concert Music	0
		—	16

* Instrumentation classes: 1 unit per semester, if taken in 4-yr. sequence, including junior college; 1 unit per semester for vocal concentration majors, junior and senior years; 2 units per semester if not completed in Lower Division Sequence.

UPPER DIVISION SEQUENCE OF COURSES IN MUSIC

<i>Senior Year—1st Semester</i>	<i>Units</i>	<i>Senior Year—2nd Semester</i>	<i>Units</i>
492. Instrumental Conducting	2	462. Problems in Music Ed. (must be taken concurrently with: Directed Teaching)	6
423. Orchestration I	2	488A. or	
451. Elementary Music Education	2	488B. Major Emphasis Lab. Courses: Instrumental: Ensemble Practice 488A, or Vocal: Vocal Lab. 488B (Materials)	1
464. Organization of School Bands and Orchestra, or		481D.* Percussion Instrument or Accompany	1-2
465. Choral Literature and Methods	2	412. Music Activity (Major Ensemble)	1
481C. Brass Instruments *	1-2	471D. Applied Music (Voice or Major Instrument)	1
412. Music Activity (Major Ensemble)	1	499. Senior Recital	0
417. Applied Music (Voice or Major Instrument)	1	College Academic requirements and electives	3-4
461. Secondary Music Education College Academic requirements and electives	2-3	440D. Concert Music	0
440C. Concert Music	0	—	16
—	16		

* Instrumentation classes: 1 unit per semester, if taken in 4-yr. sequence, including junior college; 1 unit per semester for vocal concentration majors, junior and senior years; 2 units per semester if not completed.

MUSIC

411. Major Ensemble:

A. Concert Orchestra (College Symphony) (1) F, S

Open by audition to college students and qualified adults in the community. Performs standard representative symphonic works.

B. Chorus (1) F, S

Open to all students interested in singing. Performs worthwhile music literature and at least one major choral work during the year.

412. Minor Ensemble:

A. String Orchestra (1) F, S

Open to qualified string students by audition or consent of instructor. Performs representative string literature.

B. Woodwind Ensemble (1) F, S

Open to qualified woodwind students by audition or consent of instructor. Performs representative woodwind literature.

C. Vocal Ensemble (1) F, S

Open only to students recommended by instructor or adviser. Preparation of programs for radio, TV, and public engagements.

421. Form and Analysis (2) F

Analysis of standard musical works. Consent of instructor required.

422A. Composition I (2) F

Prerequisites: Elementary counterpoint, Music Theory I and II. Ear training, analysis of smaller forms, simple composition of two-three part song form styles.

422B. Composition II (2) S

Analysis and writing of more complex musical forms. Prerequisite: Composition I.

423. Counterpoint I (2) F

Prerequisites: Musicianship I and II. Basic 18th century counterpoint in two, three, and four parts.

424. Counterpoint II (2) S

Prerequisite: Counterpoint, Music Theory I, II, III, and consent of instructor. Double counterpoint, canon, and fugue forms.

425. Music Theory IV (3) S

Advanced Harmony for composition and theory majors. Prerequisite: Music Theory III and consent of instructor.

426. Orchestration I (2) S

Writing and analysis of Orchestral music. Prerequisite: Music Theory II and consent of instructor.

441A. History and Literature of Music I (3) F

A study of the history and literature of music from early Greek beginnings through the Renaissance. (Required of all music majors.)

441B. History and Literature of Music II (3) S

A study of the history and literature of music covering the Baroque, Classic, Romantic, and 20th Century. Prerequisite: Hist. & Lit. of Music I. (Required of all music majors)

442. Music in Our Society (3) F, S

Open to all students interested. A non-technical course designed to increase interest and understanding of music in its relation to our general culture.

451. Music in the Elementary School (2) F, S

(Same as Elementary Education 432) Prerequisite: Fundamentals of music for elementary teachers, or successful completion of proficiency test. Required of all music education majors and classroom teachers. The study and application of music in the modern elementary school. Problems, methods, and materials, including such areas as singing, listening, rhythms, use of instruments, creative music, music for special interests, and music correlated with other areas of the elementary school curriculum.

453. Children's Literature in Music (2) S

A survey of books and listening materials for pre-school and elementary age children, with techniques of presentation. Designed for the classroom teacher or

non-music major. Prerequisite: 451B Music in the Elementary School, or consent of instructor.

461. Music in the Secondary School (2) F, S

Required of all music education majors. Problems, materials, and methods of organization and teaching music in the secondary school. Emphasis on the content of the general music class, choral, and instrumental program.

464. Organization of School Bands and Orchestras (2) S

Study of problems, materials, organization and methods of teaching the school marching band, concert band, and concert orchestra.

465. Choral Literature and Methods (2) S

Study of choral literature, with particular reference to use in public schools, colleges, community and adult education. Methods of instruction in actual use with choirs and choruses.

471. Applied Music, Major Instrument or Voice (1-1-1-1) F, S

Required of all music and music education majors and for field of performance concentration for divisional majors in the creative arts.

471A. Voice Lessons, Intermediate, and Advanced.

471B. Piano, Intermediate, and Advanced.

471C. Violin, Intermediate, and Advanced.

471D. Viola, Beginning, Intermediate, and Advanced.

471E. 'Cello, Beginning, Intermediate, and Advanced.

471F. String Bass, Beginning, Intermediate, and Advanced.

471G. Woodwinds, Intermediate, and Advanced. (Clarinet, Flute, Oboe, Bassoon).

471H. Brass, Intermediate, and Advanced. (Trumpet, Trombone, French Horn, Baritone, Tuba).

471J. Percussion, Intermediate, and Advanced.

472. Elementary Class Piano for Non-Music Majors (1) F

Prerequisite: permission of instructor. Elementary class instruction in basic piano techniques, with special emphasis on application to appropriate song materials and simple accompaniments used in the elementary school. Required of candidates for general elementary credential who specialize in primary education. (May be waived upon successful completion of proficiency test.)

473. Class Piano for Music Majors (1) F, S

Prerequisite: permission of instructor. Designed to meet music major piano requirement. Fundamentals of keyboard technique for those having little or no previous piano experience.

481. Orchestral Instruments (1-1-1-1) F, S

Required of candidates for music major in teaching.

A. String Instruments F

Specialization on violin, with related work on standard instruments of the string family.

B. Woodwind Instruments F

Specialization on clarinet, with related work on standard instruments of the woodwind family.

C. Brass Instruments (1-2) S

Specialization on trumpet, with related work on standard instruments of the brass family.

D. Percussion Instruments (1-2) S

Specialization on snare drum, with related work on standard instruments of the percussion family.

491. Choral Conducting (2) F

Principles, techniques, and methods of conducting choral groups. Laboratory work with class and vocal ensembles, using standard choral repertoire. Required of all music education majors.

COURSES FOR ELEMENTARY MUSIC PROGRAM, 1960-61

Junior Year

Fundamentals of Music for Elementary Teachers* (waived by examination or may be taken in lower division and credit transferred).

Piano for Elementary Classroom Teachers (elective for most elementary education majors; required for kindergarten-primary specialization).

Senior Year

Music in the Elementary School.*

Children's Literature in Music, Elementary.

ART

401. Contemporary Design (3) F, S

Fundamentals of modern painting, photography, fashions; architecture, sculpture, and industrial design. Provides a broad background in contemporary art and training in basic design, styling, and interior design. Lectures, discussions, field trips, and projects. Two dimensional design. Required of prospective art majors. Strongly recommended for others taking work in the department.

402. Contemporary Design (3) S

Includes the same areas as 401 but covers three dimensional design. Required of prospective art majors. Strongly recommended for others taking work in the department.

403. Western Art (3) F

Culture cycles. Development of Western European, Russian, and American painting, sculpture, architecture, and graphics. Provides broad familiarity with the major styles of Western art and their relation to contemporary art. Basic problems of painting, sculpture, and architecture are analyzed. Lectures, discussions, field trips, and projects. Classic, Medieval, and Russian. Required of prospective art history majors. Recommended for prospective art and humanities majors.

404. Western Art (3) S

Same as 403 but concentrates on Renaissance, Baroque, and 19th Century. Required of prospective art history majors. Recommended for prospective art and humanities majors.

406. Oriental Art (3) S

Culture cycles. Development of Asiatic painting, sculpture, architecture, ceramics, and textiles. Ancient cultures and recent trends in Islam, India, China, and Japan. Provides broad familiarity with the major styles of Oriental art and their relation to contemporary art. Lectures, discussions, field trips, and projects. Required of all prospective art history majors. Recommended for art and humanities majors.

411. Introduction to Art (3) F

Visual fundamentals. Trends in contemporary art and fashion. House planning and interior design. Provides the basic knowledge and visual training for understanding art, and for solving some of the recurring design problems which the layman faces. Lectures, discussions, field trips, and projects. Not open to art majors. Credit may *not* be received for both 411 and 401-402.

470. Contemporary Design for Elementary Teachers (1)

Visual fundamentals in the classroom. Contemporary art as related to children's art. Lectures, discussions, projects. Strongly recommended for elementary teaching credential candidates.

* Required course.

471. Elementary School Art (Methods) (2) F

Objectives and methods of the elementary art program. Studio activities, creative experiences, and techniques appropriate to the elementary school. Lectures and studio projects. Required of elementary teaching credential candidates.

472. Elementary School Art (Crafts) (2) F

Studio activities and techniques of crafts appropriate to the elementary school. Strongly recommended for elementary teaching credential candidates.

FOREIGN LANGUAGES

French 371. Intermediate French (4) F

Review of fundamentals, combined with intensive readings in literary and cultural texts.

German 311. Elementary German (4) F

Emphasis on the acquisition of basic reading skills and aural comprehension.

Russian 311. Elementary Russian (4) F

Emphasis on the acquisition of basic reading skills and aural comprehension.

PHILOSOPHY

301. Ethical Concepts (3) F

All great societies have been concerned with the problem of how to make men better. The study aims to identify and to analyze the norms and standards gleaned from world culture which purport to deal with this problem. Primary sources will be used.

401. Philosophy of Ideas (3) F, S

A philosophic analysis of basic ideas which have shaped modern thought. The approach used will include the historical development of such concepts as well as a critical examination of the assumptions involved. Readings will be directed to the writings of the great philosophers.

402. Selected Problems in Philosophy (3) F, S

A critical analysis of philosophic problems which issue from the organizational life of society. Investigation will be limited to the institutions of Government, the Community, and Science and the Arts. Reading assignments are drawn from primary sources. The procedure and requirements of the course will include class discussions.

442. Plato (3) F

Through a detailed study of the *Dialogues*, this course acquaints students thoroughly with the views of this eminent philosopher, properly called the father of western philosophy. Secondary sources will be used.

443. Kant (3) F, S

A detailed investigation of Kantian views. Secondary sources will be used.

DIVISION OF SCIENCE AND MATHEMATICS

Professors: McCarthy (Chairman), Adams, Ames, Lay, McCleary

Associate Professors: Sutton, Turner

Assistant Professor: Brattstrom

THE DIVISION OF SCIENCE

Provides fundamental instruction basic to the needs of students preparing: (1) to teach, (2) to pursue graduate training, (3) to seek employment in technical and applied fields.

It is the concern of the faculty that science instruction shall not be circumscribed by limited disciplines, but shall embrace related scientific subject-matter fields as well as liberal arts subjects and foreign language. We hold firmly to the conviction that the trained scientist of today and in the future must be one conversant with the general principles of all scientific disciplines and one adequately prepared in depth in a major field. He must be one who has been nurtured on developing ideas, not merely technical competence.

BACHELOR OF ARTS DEGREE IN BIOLOGICAL SCIENCE

Minimum Requirements for B.A. Degree

<i>Lower Division General Education</i> —Biology (8), Chemistry (16), Mathematics (6), Modern Foreign Language (0, 6, or 12).....	30	36	42
Upper Division	24	24	24
	—	—	—
	54	60	66

Required Courses

Lower Division—General Education

Biology or Zoology 1a-b, Zoology 1a and Botany 1b, Botany 1-2; other combinations by approval of Division Chairman	8		
Chemistry 1a-b, Chemistry 8-9, other equivalent courses by approval of Division Chairman	16		
Mathematics D and 3A or equivalent courses by approval	6		
Modern Foreign Language	0	6	12
	—	—	—
	30	36	42

(May be satisfied by 2 years high school and 1 year college (intermediate) or by examination or certification by language department of reading knowledge or 12 course units upper and lower division, or equivalent in high school and college preparation.)

Upper Division

Microbiology	4		
Genetics	3		
Cellular Physiology and Metabolism	4		
Electives 13 units, 8 of which must be in either Botany or Zoology area	13		
	—	—	—
	24		
	—	—	—
Totals	54	60	66

Since graduate and professional schools are seeking the best prepared students, the following programs are recommended:

A. For those students interested in medicine, dentistry, and advanced work in quantitative biology leading to the Ph.D.

Lower Division General Education Courses required for the major	30	36	42
One year college physics with laboratory	8	8	8
	38	44	50

Upper Division courses including those required for major:

Semesters: I. Microbiology, Comparative Anatomy, Calculus	11		
II. Cellular Physiology and Metabolism, Quantitative Analysis, Calculus	10		
III. Genetics, Embryology, Physical Chemistry	10		
IV. Animal Histological Technique, Physical Chemistry, Statistics	8		
	39		
Totals	77	83	89

B. For students interested in medical technology, nursing, occupational therapy, physical therapy, and other allied medical science arts.

Lower Division General Education Courses required for the major	30	36	42
One year college physics with laboratory	8	8	8
	38	44	50

Upper Division courses including those required for the major:

Semesters: I. Microbiology, Genetics	7		
II. Cellular Physiology and Metabolism, Anatomy-Physiology	8		
III. Animal Histological Technique, Histology	6		
IV. Animal Parasitology	4		
	25		
Totals	63	69	75

C. For students preparing for secondary teaching and graduate study in the non-quantitative biological sciences.

Lower Division General Education Courses required for the major	30	36	42
One year college physics with laboratory	8	8	8
	38	44	50

Upper Division courses including those required for the major:

Semesters: I. Microbiology, Plant Anatomy or Taxonomy	8		
II. Cellular Physiology and Metabolism, Histological Technique, Statistics	9		
III. Invertebrate Zoology, Ecology	8		
IV. Genetics with laboratory	5		
	30		
Totals	68	74	80

SCIENCE

311. Microbiology (4) F

Consideration of the diverse biological characteristics of microorganisms will be extended to a study of these life forms as agents of transformation in natural processes. The laboratory will introduce methods used to study microorganisms and will demonstrate the roles of microbes in agriculture, industry, and in health (2 hours lecture, 6 hours laboratory per week)

312. Genetics (3) S

The general principles and modern developments in the study of heredity.

342. Plant Anatomy (4) F

The origin, development, and maturation of leaves, stems, roots, and flowers of vascular plants. (2 hours lecture, 6 hours laboratory per week)

361. Mammalian Anatomy-Physiology (4) F

Study of the structure and function of the human organism. (2 hours lecture, 6 hours laboratory per week)

362. Animal Histological Technique (2) S

Theory and practice of the preparation of animal cells and tissues for microscopical study. (6 hours laboratory per week)

400. Independent Study and Research (1-3) F

A laboratory course. May be repeated for credit.

412. Cellular Physiology and Metabolism (4) F

Characteristics of life at the cellular level: organization of structures and metabolic functions within the cell; processes by which the cell maintains its integrity in its environment, obtains energy, and forms new cell material. (2 hours lecture, 6 hours laboratory per week)

441. Plant Taxonomy (4) F

An introduction to the study of classification of conifers and the flowering plants through field collecting and laboratory study and identification of representative kinds. (2 hours lecture, 6 hours laboratory per week)

443. Plant Ecology (4) S

Relation of plants to their environment with emphasis on climatic and soil factors influencing their structure, behavior, and distribution. (2 hours lecture, 6 hours laboratory per week)

461. Invertebrate Zoology (4) S

Lectures and laboratory devoted to the study of the structure, habits, distribution, and evolution of invertebrate animal life. (2 hours lecture, 6 hours laboratory and field work per week)

463. Comparative Vertebrate Anatomy (4) F

A comparative study of the chordates, with emphasis on morphology and evolution of various organ systems from fish through mammals. Includes thorough dissection of dogfish, Necturus, and cat. (2 hours lecture, 6 hours laboratory per week)

464. Embryology (4) F

Development from fertilization through organogenesis with laboratory work on the frog, chick, and pig. (2 hours lecture, 6 hours laboratory per week)

465. Animal Ecology (4) F

A survey of the physical, chemical, and biological factors of the environment as they affect the distribution and mode of life of animals. (2 hours lecture, 6 hours laboratory and field work per week)

BACHELOR OF ARTS DEGREE IN MATHEMATICS

Lower Division General Education Must Include: Physics 8 units, Mathematics 18 units, Modern Foreign Language (0-6-12) * units and General Chemistry 8 units (alternate lower division courses may be substituted at the discretion of the department chairman)			
	34	40	46
Upper Division	24	24	24

Required Courses

Lower Division—General Education	58	64	70
Advanced Algebra and Trigonometry	6		
Analytical Geometry and Calculus	6		
Intermediate Calculus	6		
General Physics with laboratory	8		
General Inorganic Chemistry	8		
Modern Foreign Language	0	6	12
	—	—	—
Totals	34	40	46

Upper Division

Differential Equations	3		
Modern Algebra	6		
Advanced Calculus	6		
Electives from upper division mathematics or physics listings	9		
	—		
Totals	24		
	—	—	—
Totals	58	64	70

MATHEMATICS

401. Differential Equations (3) F

An introductory course stressing differential equations with an elementary introduction to partial differential equations.

402. Modern Algebra (3) F

An introductory course of algebraic systems such as integral domains, rings, fields, ideals, groups, various types of algebras.

403A. Advanced Calculus I (3) F

403B. II (3) S

A year course designed to introduce the student to rigorous proofs in analysis. Topics will include a discussion of the real number systems, continuity, differentiation and integration, functions of several variables, infinite integrals, and series.

404. Mathematical Statistics (3) S

An elementary course for students in the sciences, social sciences, and psychology.

405. Differential Geometry (3) F

An elementary course in classical geometry.

406. Applied Mathematics (3) F

Prerequisite: a first course in differential equations. An introductory course in mechanics (both terrestrial and celestial), boundary value problems, Fourier series, and integral transforms. A continuation in the study of differential equations and their use in studying problems relating to rockets, satellites, etc.

* May be satisfied by 2 years high school and 1 year college or by examination or certification by language department of reading knowledge or 12 course units upper and lower division, or equivalent in high school and college preparation.

PHYSICS

411. Theory of Wave Motion (4) S

Prerequisites: one year college physics, calculus. The properties of wave motion: production, propagation, refraction, diffraction, interference, and transmission through surfaces of waves as applied to physical optics, acoustics, heat radiation, and wave mechanics. (2 hrs. lecture, 6 hrs. laboratory per week)

431. Electricity and Magnetism (4) (not offered, 1960-61)

Prerequisites: one year college physics, calculus.

Corequisite: advanced calculus, or permission of the instructor. Theories of electrostatics, magnetostatics, electrodynamics, and electromagnetic waves. Introduction to magnetohydrodynamics. (2 hrs. lecture, 6 hrs. laboratory per week)

441. Analytical Mechanics (4) (not offered, 1960-61)

Prerequisites: one year college physics, calculus, or permission of the instructor. Principles of Newtonian mechanics applied to the statics and dynamics of particles and rigid bodies. Introduction to LaGrangian and Hamiltonian equations. (2 hrs. lecture, 6 hrs. laboratory per week)

451. Modern Physics (3) S

Prerequisites: one year college physics, calculus, or permission of instructor. Discussion of experiments and introduction to theory for selected topics in atomic, nuclear, and solid state physics.

452. Physics of Nuclear Radiation (3) F

Prerequisite: one year college physics. X-rays, radioactivity, interaction of radiation with matter, detection of radiation, applications to health physics.

453. Nuclear Physics (3) (not offered, 1960-61)

Prerequisites: one year college physics, calculus, or permission of the instructor. Properties of nuclei, qualitative discussion of nuclear theories, natural and artificial radioactivity, elementary particles, nuclear reaction.

454. Solid State of Matter (3) F

Prerequisite: one year college physics, one course in atomic or nuclear physics, calculus, differential equations. An introduction to the physical properties of matter in the solid state, as explained by atomic theory. Structural, mechanical, and growth properties of crystals; atomic bonding; electrical, magnetic, and thermal properties of metals, semiconductors, and insulators.

471. Electronic Circuit Theory (3) F

Prerequisites: one year college physics, calculus, or permission of the instructor. Operating characteristics of vacuum tubes, transistors, and semiconductor diodes. Linear circuit theory for alternating currents and for transient currents. Introduction to switching and pulse circuits.

DIVISION OF SOCIAL SCIENCE

Professors: Brown (Chairman), Bugelli, Hyink, Langsdorf, Mason

Associate Professors: Povlovich, Toy

Assistant Professors: de Graaf, Earick

The Division of Social Science will offer courses in Geography, History, Political Science, and Sociology and accept work in economic systems, history, and theory toward a major embracing two or three of these fields. Several courses are largely designed to acquaint all students with social and political institutions and outstanding contemporary issues. They will give all students a better understanding of the present world, of the developments which have shaped it, and of leading contemporary problems. Prospective teachers should take Social Science courses covering any areas in which they may instruct to assure a fuller and more objective command of their subjects. Each field offers classes to students preparing for graduate study and professional work. Departmental majors will be offered in the near future.

As upper division courses, the Social Science curriculum presumes a sound background in United States and world history, political science, economics, and any other fields of Social Science in which the student plans to concentrate. Lower division courses in these fields are strongly recommended before the student comes to this college. Students planning to concentrate in Social Science are also expected to pursue a well-rounded liberal arts education. Correlatively, study of the Social Sciences is essential to persons in other majors to develop civic awareness, an idea of social responsibility, and an understanding of human events, all of which are necessary in this shrinking modern world.

BACHELOR OF ARTS DEGREE IN SOCIAL SCIENCE

Lower Division

(a) 9 units of United States History and Government, including at least 3 units in each of the two areas. These courses satisfy the general education requirements in this respective field.

(b) 6 units in one of the following fields:

- (1) anthropology
- (2) economics
- (3) geography
- (4) history
- (5) political science
- (6) sociology

Additional units in other fields are recommended if the student intends to pursue upper division work in those fields.

(c) 0-6-12 units of foreign language, depending upon high school training ability to prove proficiency in examinations, or previous college courses.

Upper Division

(a) Students pursuing a group major in 2 fields listed above:

- (1) 12 units minimum in the first field
- (2) 9 units minimum in the second field
- (3) 24 units minimum in both fields

Courses so related to lower division work as to total a minimum of 15 units in each field and 36 Social Science units in the group major excluding general education requirements.

(b) Students pursuing a group major in 3 fields:

- (1) 9 units minimum in first field
- (2) 6 units minimum in second field
- (3) 6 units minimum in third field
- (4) 24 units minimum in all fields

Courses so related to lower division work as to total a minimum of 15 units in the first field, 9 units in each of the other two fields, and 36 Social Science units in the group major excluding general education requirements.

GEOGRAPHY

411. General Physical Geography (3) F, S

A study of the basic elements of the physical environment (climate, land forms, water resources, vegetation, and soils) with particular emphasis on their world patterns and interrelations.

412. Geomorphology (3) S

An introductory study of major and minor surface features, and their relation to landscapes in general. (lecture 2 hours, activity 2 hours (to be arranged) per week.)

413. Climatology (3) F

Prerequisites: Elements of Physical Geography, Geography for Teachers, or consent of instructor. A study of basic climatological processes, world distribution of major elements of climate, problems of description and classification of climates. The importance of climate in the natural and cultural landscape, climatic change.

431. World Regional Geography (3) F, S

Areal studies of the peoples of the world and their settlement characteristics; evaluation of the origins, dispersals, and contemporary distributions of representative ways that man lives on the earth.

432. Geography of North America (3) F

A regional study of the United States and Canada emphasizing interrelated physical and cultural features and conditions that give geographic personality, both to the individual regions as well as to the individual countries.

433. Geography of Europe (3) F

A regional study of the countries of Europe, exclusive of the Soviet Union, emphasizing interrelated physical and cultural features and conditions, with special attention given to important economic, social, and political conditions and problems.

434. Geography of Latin America (3) F

A regional study of the Middle and South American countries emphasizing interrelated physical and cultural features and conditions, and special hemispheric relationships involving these countries and the United States and Canada.

435. Geography of Asia (3) S

A regional study of the Asiatic countries, exclusive of the Soviet Union, surveying interrelated physical and cultural features and conditions with special emphasis on the growing importance in economic, social, and political terms of such countries as China, Japan, and India.

436. Africa and Middle East (3) S

A regional study of the countries and colonies of Africa and the Middle East surveying interrelated physical and cultural conditions with special emphasis on the rapid development of political, social, and economic conditions and problems.

451. California Geography (3) F, S

A study of the natural environment of California in its relationship to man. This course covers all periods of human settlement, the problems each met in dealing with the environment, the changes each made in the environment, and their permanent effects. Most emphasis is placed upon contemporary changes, conditions, and problems.

462. Maps and Map Interpretation (3) S

A study of the properties of map projections; interpretation of map symbols, legends and other map information; coverage and quality of foreign and domestic maps; map sources; emphasis on effectiveness of cartographic representation of relationships between natural and cultural phenomena in representative situations.

463. Cartography (2) F

471. Teaching of Geography (3) F, 1961

507. Seminar in Geography (2) F, S

Seminar in the history, objectives, and methods of geography.

HISTORY

330A. Contemporary Civilizations and U. S. Foreign Policy I (3) F

A survey of the Middle East, Asia, and Africa, concentrating on the development of their present civilizations, political and economic problems, their place in world affairs, and policies followed by the United States in each of these areas.

330B. Contemporary Civilizations and U. S. Foreign Policy II (3) S

A survey of present governments and civilizations in Europe and Latin America, briefly summarizing the historical background of present developments and problems. Special attention is given to the position of these areas in world affairs and the United States policy toward each area.

383. History of California (3) F, S

A survey of the political, economic, and social history of California from the aboriginal inhabitants to the present. This course analyzes the development of contemporary California in each phase of the state's development, the historical background of contemporary issues, and geography related to the course.

421A. Ancient History I—Greece (3) F

Prerequisite: Western Civilization I. A survey of ancient civilization from the rise of Greece through the fall of the Macedonian Empire. Stresses the evaluation of Western culture and heritage and progress in the development of an economy and society.

421B. Ancient History II—Rome (3) S

A history of the Mediterranean world from the decline of the Hellenistic Empire to the fall of Rome, with major attention on Roman civilization.

423A. Medieval History I (3) F

History of Europe from the fall of Rome to 1066. Covers the transformation of European society and culture through the Barbarian invasions and Carolingian Empire to the Norman invasion of England.

423B. Medieval History II (3) S

History of Europe from 1066 to 1350, emphasizing economic changes and developments in forms and units of government.

425. Renaissance (3) S

Prerequisite: Western Civilization II. History of Europe from 1350 to 1516. Surveys leading political and economic developments but concentrates on changes in western culture and the rise of new ideologies.

427. 17th and 18th Century Europe (3) S

Prerequisite: Western Civilization II. Study of European diplomatic history and power balance from the Treaty of Westphalia to the eve of the French Revolution.

428. 19th Century Europe (3) F

Prerequisite: Western Civilization II. Study of European diplomatic history and political, social, and economic change from 1789-1914. This course particularly stresses the international rivalry within Europe and in colonial areas which led to World War I.

429. Recent Europe Since 1914 (3) F

Prerequisite: Western Civilization II. Study of European diplomatic history during World War I leading up to World War II and during and after that war. Stresses the effects of both wars upon the political and economic structure of Europe and upon its place in world politics.

434. Russian History and Government (3) F

Prerequisite: Western Civilization II. A study of Russia's past from earliest times with emphasis on knowledge and understanding of Russian thought, ways, and institutions. A consideration of the evolution of Eastern European nation-states with special emphasis on the rise of Russia in relationship to the growth and decline of her western neighbors, both before and after the Revolution of 1917.

435. Soviet History and Government from 1917 (3) S

A study of the rise of a Communist system in Russia and its policies from 1917 to the present. This course analyzes the economic and political system in the Soviet Union and traces changes in the Communist policy during this period.

440A. History of England I (3) F

A study of the political, economic, and social history of England and her affiliated nations and territories from the earliest times to 1688. Particular stress is placed upon the growth of a responsible political system and of democracy in Britain and the development of a colonial system abroad.

440B. History of England II (3) S

A study of the political, economic, and social history of England and her affiliated nations and territories from 1689 to the present. Particular stress is placed upon the modification of the Parliamentary system and the growth of economic and social democracy within Britain and upon the development of responsible political systems in the dependent territories.

450A. Latin America I (3) (not offered, 1960-61)

A survey of the American Hemisphere south of the United States from aboriginal civilizations to the conclusion of the independence movement in 1826. History of the Americas I is recommended but not required for this course.

450B. Latin America II (3) (not offered, 1960-61)

Survey of the American hemisphere south of the United States since 1826. This course stresses the struggle to form responsible governments, the role of the United States investment and foreign policy, and the rise of socio-economic reform movements since 1910 in shaping modern Latin America.

470. American Colonial Civilization (3) F

Prerequisite: U.S. History I. The settlement of North America and the growth of Anglo-American civilization from 1000 through the Revolution to 1783. This course stresses the development of political and economic institutions and a distinctive American culture.

471. U.S. History—Early National Period (3) (not offered, 1960-61)

Prerequisite: U.S. History I. Covers United States history from 1783 to 1850. This course traces the development of a constitutional government, the growth of

the United States across the continent, and the rise of sectional differences to the Compromise of 1850.

472. Late 19th Century United States (3) S

Prerequisite: U.S. History II. United States political, economic, and social history from 1850 to 1912. Covers the Civil War and Reconstruction, the growth of large industrial organization, the decline and revolt of agriculture, and the emergence of the United States as a world power.

473. Recent United States History (3) S

Prerequisite: U.S. History II. Political, economic, and social events and developments since 1912. Covers World War I and decline of Progressivism, prosperity and depression and the changing role of the national government, the break with isolationism, and post-1945 problems and trends.

481. Westward Movement (3) F, S

A survey of the expansion of the United States population and national sovereignty from the Atlantic seaboard to the Pacific, roughly 1750 to 1890. Stresses contemporary conditions and problems which have grown out of this movement and geography related to the course.

POLITICAL SCIENCE

371. American Political Institutions (3) F

A survey of the basic principles upon which the governmental structure of the United States works, as set down in the Constitution and other important documents and in court decisions and legislation. Required of students who have not fulfilled this General Education requirement.

381. State and Local Government (3) F

A detailed study of the governmental structure, political operation, and leading contemporary issues and problems in this state and its municipalities. It is intended to augment the lower division course by offering a longer, more analytical study. Required of all students who have not fulfilled this General Education requirement.

401. International Relations (3) F

Prerequisite: United States Constitution and Government, 3 units. (Comparative Government is recommended.) A study of the principles of politico-economic relations among nations and of the basic forces and instruments in world politics. This course includes a review of leading developments and shifts in the international power scale. Recommended for students concentrating in European History.

SOCIOLOGY

301. Principles of Sociology (3) F

Basic principles and concepts of sociology; approach to scientific analysis of social relations; case materials from studies of various cultures.

302. Social Problems (3) F

A study of major social problems in the United States; emphasis on the relativity of problems, viewed as a function of social values; community sources of information used when practical.

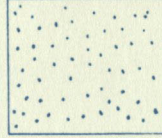
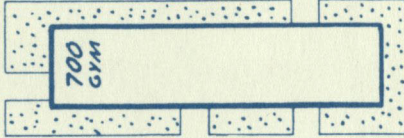
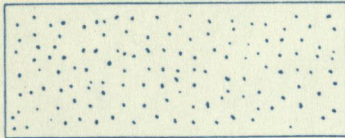
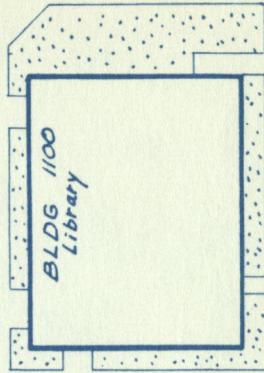
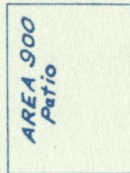
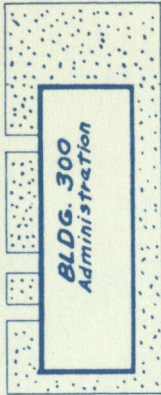
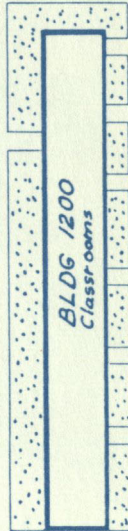
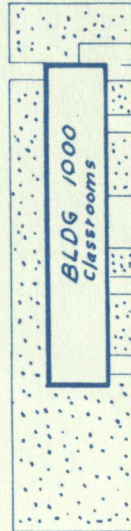
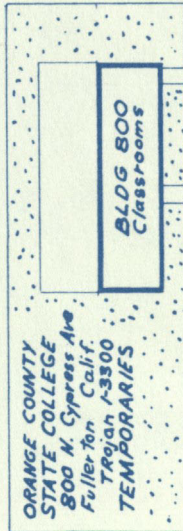
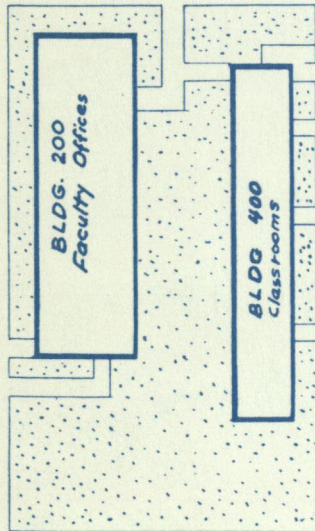
411. Civil Offenders (3) F

Prerequisite: Principles of Sociology. Analysis of causes of adult criminal behavior; the criminal subculture; adult criminal types; legal aspects of adult crime.

421. Social Case Work (3) F

An introduction to the skills and techniques used in social case work, social group work, and community organization.

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ORANGE COUNTY STATE COLLEGE

800 North Cypress Avenue

Fullerton, California

TR 1-3300