CATALOG OF
RIVERSIDE
JUNIOR COLLEGE
1923—1924

ANNOUNCEMENTS FOR
1924—1925

RIVERSIDE, CALIFORNIA

Riverside City College Library
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### CALENDAR 1924-1925

#### AUTUMN QUARTER

- **Sept. 22, Monday** Registration of students.
- **Sept. 23, Tuesday,** 8:35 a.m. Instruction begins.
- **Oct. 10, Friday** Last day for removing conditions and incompletes incurred in the spring quarter.
- **Nov. 27, 28, Thursday, Friday** Thanksgiving recess.
- **Dec. 10-12, Wednesday-Friday** Quarter examinations.
- **Dec. 12, Friday,** 4:30 p.m. Christmas recess begins.

#### WINTER QUARTER

- **December 29, Monday** Registration of students.
- **Dec. 30, Tuesday,** 8:35 a.m. Instruction begins.
- **January 1, Thursday** New Year's Day (holiday).
- **January 16, Friday** Last day for removing conditions and incompletes incurred in the autumn quarter.
- **March 18-20, Wednesday-Friday** Quarter examinations.
- **March 20, Friday,** 4:30 p.m. Spring recess begins.

#### SPRING QUARTER

- **March 30, Monday** Registration of students.
- **March 31, Tuesday,** 8:35 a.m. Instruction begins.
- **April 17, Friday** Last day for removing conditions and incompletes incurred in the winter quarter.
- **June 15-18, Monday-Thursday** Final examinations.
- **June 19, Friday,** 4:30 p.m. Eighth annual commencement exercises.
BOARD OF EDUCATION

Dr. J. T. Barrett  A. S. Cooper
W. B. Farrar  W. G. Fraser
Mrs. Clark McEuen

OFFICERS OF THE BOARD

President
W. G. Fraser
Clerk
A. N. Wheelock

RIVERSIDE JUNIOR COLLEGE

FACULTY 1923-1924

Anderson, Robert Patton, English
Princeton University, A. B. 1908, Phi Beta Kappa
Princeton University, A. M. 1904
Teaching fellow, Princeton, 1903-1904
Instructor, Princeton, 1904-1905
Office manager, Princeton University Press, 1910-1913
Edinboro State Normal, Edinboro, Pa., 1914-1916
Instructor, University of California, summer session in Los Angeles, 1921, 1922, 1923
Instructor, University of California Extension Division, 1923.
Riverside Junior College, 1916-

Bates, William S., Mechanical Drawing
Armour Institute of Technology, 1905
Inspector of marine engines for the United States Shipping Board
Engineering departments of Union Oil Co. of Los Angeles, and Southern Sierra Power Co. of Riverside
Riverside Junior College, 1922-

Bliss, Howard H., Physics
McMinnville College, 1902
Univ. of Cal., B. S. 1909, M. S. 1913, Sigma Xi
University of California, 1915-1919
State Supervisor of Trade and Industrial Education, Nevada, 1919-1921
Riverside Junior College, 1921-

Boardman, Harry L., Social Sciences, Logic, Psychology
McMinnville College, 1884-1886
Colfax College, A. B. 1889
University of Chicago, 1890-1893
McMinnville College, D. D. 1903
Graduate student University of California, Southern Branch, summer session, 1921, Berkeley, 1922
McMinnville College, president, 1896-1903
Berkeley Divinity School, 1906-1907
Whitman College, 1915
Riverside Library School, 1922
Riverside Junior College, 1922-
BROWN, BETTY Music
Wilder College of Music, 1918
Boston University, Department of Music, 1920
Goddard Seminary, 1920-1923
Riverside Junior College, 1923-

CAGE, ROSA B., Librarian
H. Sophie Newcomb College, Tulane University, La., 1916-1918
Riverside Library Service School, 1918-1919
Riverside Public Library, 1919-1921
Riverside Junior College, 1921-

CUNNINGHAM, ASHEL, Director of Athletics
Indiana University, LL. B. 1918
Indiana University, assistant coach, 1911-1912
DePauw University, director of athletics, 1912-1918
Redlands University, director of athletics and physical education, 1918-1921
Redlands University, instructor in hygiene, 1920-1921
Riverside Junior College, 1921-

DALRYMPLE, VIRGIL S., German
Butler College, A. B. 1899
Cornell University, 1899-1901
Foreign travel, summers 1908, 1909, 1910, 1911, 1913
Riverside Junior College, 1916-

DYKES, E. B., Public Speaking
Stanford, A. B. 1908
Riverside Junior College, 1923-

RIVERSIDE JUNIOR COLLEGE

EGGLESTON, JULIUS WOOSTER, Geology, Mineralogy, Geography
Amherst College, B. S. 1898, Phi Beta Kappa
Harvard, A. M. 1901
Fellow of the American Geographical Society
U. S. Geological Survey, temporary assistant, 1901-1902
Colorado School of Mines, assistant and instructor in geology and mineralogy, 1901-1903
Missouri School of Mines, assistant professor of geology and mineralogy, 1910-1913
Occidental College, professor of geology and botany, 1913-1915
California State Mining Bureau, curator of museum, 1919
Riverside Junior College, 1919-

FIELD, 1st Lieut. E. LEWIS, Military Science and Tactics
Northwestern University, 1905-1907
University of Southern California, Law 1910-1911
Commissioned U. S. Army, August 27, 1917
Graduate Infantry Officers Tactical School, June, 1922
Riverside Junior College, September 25, 1922-

FRASER, FRANCES MAXWELL, Education, Social Sciences, Dean of Women
Vassar College, A. B. 1917
Columbia University, A. M. 1919
University of Oxford, Diploma in Education 1923
Riverside Junior College, 1923-

HOUGHTON, GEO. E., Machine Shop
Two years at Morrow Machine & Screw Company, Ingersoll, Ont., Canada
Seven years, Canada Cycle Motor Co., Toronto, Can.
Four years, Buick Machine Shop, Flint, Mich.
Two years, Western Mott Machine Co., Flint, Mich.
Seventeen months, Chevrolet Motor Car Co., Flint, Mich.
Riverside Junior College, 1916-
JAEGGER, EDMUND, Zoology
Pomona College Marine Laboratory, 1917
Occidental College, B. S. 1918
University of California, Graduate School, 1918
Travel, 1919-1921
University of California, special research, 1921
University of California, summer session 1922
Author, The Mountain Trees of Southern California, 1919; Denizens of the Desert, 1922
Member, American Society of Mammalogists; Cooper Ornithological Club
Riverside Junior College, 1922-

LINHART, GEORGE A., Mathematics
University of Pennsylvania, B. S. 1909
Yale University, A. M. 1911
Yale University, Ph. D. 1913
Massachusetts Institute of Technology, Research, 1914
Yale University, 1910-1912
Simmons College for Women, Massachusetts, 1913
University of California, 1915-1920
Pareka Junior College, 1921-1923
Riverside Junior College, 1926-

MARTIN, MURREY K., Latin
Illinois College, A. B. 1893
University of Chicago, A. M. 1909
University of California, summer sessions 1915, 1916, 1918
Southwestern College, professor of Latin, 1899-1899
Indiana University, instructor in Latin, 1899-1900
Westminster College, professor of Latin, 1904-1905
University of Ft. Worth, professor of Latin and Greek, 1905-1906
Whitworth College, professor of Latin and Greek, 1906-1911
Turlock Junior College, dean, 1917-1921
Riverside Junior College, 1922-

MCDERMONT, EARL ALEXANDER, History, Economics
Occidental College, A. B. 1915
Columbia University, A. M. 1916
University of California, graduate student 1916-1917
University of Montpellier, France, 1919
Riverside Junior College, 1921-

MEEKER, CHARLES H., Educational and Mental Measurements
Hillsdale College, B. S. 1888
Hillsdale College, M. S. 1893
Stanford University, summer session 1900
University of California, summer session 1922
Riverside Junior College, 1922-

MONTAGUE, DANIEL PAUL, Botany
Glasgow University, Sc. B. (hons.) 1917
Glasgow University, demonstrator in botany, 1917-1918
Belfast University, assistant professor of botany, 1918-1919
West of Scotland state Agricultural College, lecturer on agricultural botany, 1919-1920
Imperial Dept. of Agriculture for British West Indies, research assistant (temporary) on tropical botany, 1920-1921
Birkbeck College, London Univ., lecturer on botany, 1921-1922
Riverside Junior College, 1922-

MOORE, N. O., Printing
Milton College, Milton, Wis., A. B. 1903
Davis Printing Co., Milton, Wis., 1897-1906
Manager Recorder Press, Plainfield, N. J. 1906-1910
Riverside Junior College, 1916-

MUMMA, C. W., Athletics
University of Illinois, Coaching Course, 1921
Y. M. C. A. College, Bachelor of Physical Education 1923
Chicago College of Osteopathy, Athletic Coach, 1921-1923
Chicago Normal School of Physical Education, Athlete Director, 1922-1923
Riverside Junior College, 1925-

NICHOLS, CARL, Landscape Gardening
University of California, B. S. 1913
University of California, M. S. 1914
Riverside Junior College, 1925-
NORTH, ALFRED M., History
Pacific University, B. S. 1901
University of Chicago, 1903-1906
Summer sessions, University of Chicago, 1907-1908
Summer sessions, University of California, 1914, 1915
Investigator for the California State Historical Survey Commission, 1916
Riverside Junior College, 1916-

O’BRIEN, JAMES E., Commerce
San Francisco Business College, 1901
Heald’s Business College, 1905
San Jose Normal, 1906
Five years practical experience as office manager
Riverside Junior College, 1918-

O’NEILL, KATE NAVIN, Spanish
University of California, A. B. 1906
University of California, A. M. 1923
University of California, summers 1910, 1911, 1912, 1913, 1916
University of Washington, summer 1917
University of Southern California, summer 1919
Graduate student University of California, June 1920-Jan. 1922
Riverside Junior College, 1916-

PAUL, ARTHUR G., Social Sciences, Director
Occidental College, A. B. 1909
University of California, graduate study summer sessions 1915, 1914, 1916, 1917, winter semester 1916
Assistant to the president, Occidental College, 1910, 1912
Registrar and instructor in English, 1912-1913
Registrar and associate professor in history and political science, 1915-1916
Riverside Junior College, 1917-

REA, ERNEST L., Latin and Greek
Stanford University, A. B. 1901. Phi Beta Kappa
Stanford, graduate student, 1902 (spring semester)
University of California, student, summers, 1905, 1906
University of Kentucky and foreign travel 1906-1907
Riverside Junior College, 1916-

RICHARDS, JULIUS K., French
Columbia University, A. B. 1915
Columbia University, A. M. 1917
Texas Christian University, professor of French and Spanish, 1917-1922
Riverside Junior College, 1922-

RICKARD, HELEN S., Music
Mount Holyoke College, A. B. 1913
Study of piano and harmony with Rudolph Ganz, Berlin, Germany, 1918-1919
Continuation of piano study with Ernest Hutcheson, New York, 1914-1916
Harmony study, Columbia University 1915-1916
Riverside Junior College, 1919-

SUTHERST, WALTER FREDERICK, Chemistry
Federal Technical Institute, Zurich, Switzerland, diploma, 1900
University of Geneva, Switzerland, Ph. D. 1902
Fellow of the Institute of Chemistry, London, 1902
University of Manitoba, Canada, A. M. 1915
Chemical factory manager, London, 1902-1906
Marist Brothers College, Uitenhage, South Africa, Professor of Chemistry, 1906-1909
Chemist, Hawaiian Sugar Planters Association, Honolulu, H. T. 1912-1914
Chemist, Defense Department, Commonwealth of Australia, 1914-1918
Overseas with Australian Imperial Forces, as Munitions Chemist, 1916-1918
Turlock Junior College, Instructor in Chemistry, 1921-1922
Riverside Junior College, 1925-

TONEY, GLADYS, Stenography
University of Southern California, A. B. 1915
Sawyer Secretarial School, 1921
Riverside Junior College, 1925-
TURNER, GEORGE M., Chemistry
Amherst College, A. B. 1885
Johns Hopkins University, 1885-1888
Collaborator on National Physics Notebook
Chairman of Examination Committee for Physics for New York State, 1909-1913
Chairman of Revision Committee for Syllabus in Physics for New York State, 1915-1916
Riverside Junior College, 1918-

TWOGOOD, ARCHIE J., Engineering, Co-ordination
University of California, B. S. 1913
University of California, summer sessions 1922-1923
Student engineering course, General Electric Company, Schenectady, 1913-1915
Meter engineer, Pacific Gas and Electric Co., 1915-1917
Assistant electrical engineer, Southern Pacific Co., 1917-1918
Oregon Institute of Technology, 1918-1921
Riverside Junior College, 1925-

WIGLEY, WILLIAM C., Shop, Cabinet and Pattern Making
Chicago Teachers College, 1907
Riverside Junior College, 1916-

WILSON, HIRAM EDWIN, Physical Education
Completed course for Y. M. C. A. Physical Directors, 1902
Completed course for Physical Directors, Yale University, 1912
Physical Director, Pacific University, 1902-1905
Assistant physical director, Whitman College, 1905-1907
Physical director, Y. M. C. A., Bellingham, Wash., 1907-1910
Physical director, Denver University, 1912-1914
Physical director, Community Gymnasium, Hammond, Indiana, 1914-1918
Supervisor physical education, Hammond, Indiana, public schools, 1914-1918
Commissioned 1st lieutenant, physical director and athletic officer, U. S. Army Aviation, 1918-1919
Supervisor physical education, Riverside City Schools
Riverside Junior College, 1918-

*Absent on leave

RIVERSIDE JUNIOR COLLEGE

OFFICERS OF ADMINISTRATION

1923-1924

ARTHUR N. WHEELOCK
Superintendent of City Schools

ARTHUR G. PAUL
Director

ROBERT P. ANDERSON
Chairman, Catalog and Curriculum Committee

ERNEST L. REA
Chairman, Admission, Classification, and Schedule Committee

HARRY L. BOARDMAN
Chairman, Committee on Regulations and Adjustments

FRANCES M. FRASER
Dean of Women

ROSA B. CAGE
Librarian

MARY ANDERSON
Secretary to the Director
RIVERSIDE JUNIOR COLLEGE

HISTORY

After a popular agitation lasting over two years, the Riverside Junior College was finally opened to the public in the fall of 1916 with a Freshman class of more than fifty students. Circumstances were particularly favorable to the development of a junior college at Riverside. The city had recently erected the strictly modern and well equipped Polytechnic High School in which there was still plenty of room for the additional classes required. No expense had been spared in equipping laboratories and shops, which became at once available for the use of the new college. And last but most important, an especially able high school faculty, many of whose members had had experience in college teaching, stood ready to guide the infant institution to success.

In October, 1921, as the result of a popular election, the Riverside Junior College District was organized according to the Junior College Law passed by the California State Legislature that year. By this law the Junior College has its own corporate existence, entirely distinct from the high school, its own governing board, and its own system of finance involving increased state aid. It thus forms part of a state-wide system of regional junior colleges designed to popularize education in co-operation with the State University and under the advisory supervision of the State Board of Education.

In the fall of 1921 the Junior College outgrew its quarters in the Polytechnic High School buildings, and secured for its use the Gage property on the corner of Terracina and Riverside Drives. The inadequacy of these temporary quarters for the constantly growing college was at once apparent, and emphasized both to the authorities and to the community the need for new and distinct junior college buildings. Bonds for these buildings were voted on May 10, 1923, and the buildings are at present under construction.
PURPOSE AND AIMS

The purpose of the Junior College is to afford to the residents of Riverside and the surrounding communities free instruction near their own homes in the first two years of college work. Thus not only is the cost of a college education cut almost in half, but the necessity for leaving home is postponed for two years. This means that young students may without loss of educational time remain under home influences until sufficiently mature to leave them safely, and that no student need be subjected to the bewildering confusion of the present overcrowded lower classes at the great universities.

The aims of the college are two: first, to fit the student for the upperclass years of any college or university he may later wish to attend; and second, to offer a well-rounded two-year collegiate course to the student who does not wish to continue his work beyond the junior college.

LOCATION

The Junior College is located near the corner of Terracina and Riverside Drives on a bluff overlooking the Tequesquite Arroyo from the south. It is in the midst of one of Riverside’s newest and most beautiful residential sections, and is easily reached by walking, motor, or street car from the business district. Take the Arlington (Magnolia Avenue) car to Terracina Drive, and walk one block east.

BUILDINGS

The first unit of the group of the new Junior College buildings will be ready for occupancy in September, 1924. This unit consists of the library building which will be used as an assembly hall, and a large building containing the science lecture rooms and laboratories. These buildings form the north and east sides respectively of a rectangular patio, and are connected at the northeast corner by the administration offices.

The architecture is an adaptation of the Spanish and Italian Renaissance styles. The principal features are plaster and stone finishing of the exterior, red tiled roof, fireproof tower staircases, and arcaded corridors for both stories opening upon the patio.

Gage Hall will be retained for the present as an overflow building, and the present music building is to be fitted up as a women’s club house.

REQUIREMENTS FOR ADMISSION

ADMISSION TO THE FRESHMAN CLASS

A graduate of a California high school may enter the Riverside Junior College upon presentation of proper credentials. Applicants from secondary schools outside of California are required to meet the same standards as applicants who enter from secondary schools in California. Candidates who are unable to present satisfactory school certificates and who desire to qualify for full admission may be admitted to the freshman class by passing examinations in the preparatory subjects constituting a standard high school course.

Freshmen who show after the first six weeks of the college year that they are not ready for college work may by action of the Admission Committee be advised to withdraw.

ADVANCED STANDING

Students from institutions of collegiate rank may be given advanced standing in the Riverside Junior College upon the presentation and approval of certificates from such institutions.

SPECIAL STUDENTS

Candidates who are eighteen years of age and over may register for such courses as they are prepared to pursue with profit.
REQUIREMENTS FOR THE JUNIOR COLLEGE
DIPLOMA AND THE JUNIOR CERTIFICATE

The Junior College Diploma will be granted to students properly accredited for entrance from high schools who complete ninety-six units (sixty-four semester-hours) of college work, not less than nine of which are in English and six in physical education. The unit employed in reckoning college credit is one exercise a week in one subject continued through one quarter.

The Junior Certificate will be granted to students entitled to receive the Junior College Diploma who have in addition satisfied the following requirements: full number of recommended credits from high school for college entrance; the completion of Subject A, nine units of social science, and nine units of science or mathematics; an arrangement of courses so as to show thirty units of work in one of the following departments: English and Foreign Languages, Social Sciences, Mathematics and the Physical Sciences, and the Biological Sciences.

The Junior Certificate admits students to third year of universities and colleges without examination.

Students who expect to continue beyond the Junior College should provide themselves with catalogs of the institutions to which they expect to go and should consult with the faculty advisers before arranging their courses of study.
**BOTANY**

**BOTANY 1.** An introductory course, covering in an elementary way the morphology, microscopic structure, and physiology of the higher plant and the descriptive morphology of the lower orders of the plant kingdom; also an introduction to the recognition and classification of the native wild plants. Two lectures and two two-hour laboratory periods each week. The practical work will be varied by field excursions at frequent intervals. *Four units each quarter.*

**BOTANY 10a.** Plant histology and anatomy, including botanical microtechnique. A survey of the physiological systems of the plant from the standpoint of their anatomical structure. The laboratory work will include instruction in the technique and microchemistry involved in the preparation and interpretation of permanent microscopic preparations. This course is essential for all upper division work in botany, and is useful for students of agriculture, forestry, pharmacy, and pharmacognasy. Two lectures and two two-hour laboratory periods a week. *Four units winter quarter.*

**BOTANY 11b.** Morphology of pteridophytes. Morphology of bryophytes. A survey of the structure and relationships of the living and fossil fern- and moss-like plants. Two lectures and two two-hour laboratory periods a week. *Four units winter quarter.*

**BOTANY 12c.** Morphology of angiosperms and gymnosperms. This course includes the classification and ecology of the local flora, including the forest trees and the chaparral; and it will meet the needs of students of agriculture and forestry. Two lectures and two two-hour laboratory periods a week. *Four units spring quarter.*

**BOTANY 13b.** 1. Morphology of algae. 2. Morphology of fungi. Course 1 deals with the structure, life-history, and relationships of the local water-weeds and maritime seaweeds. Course 2 includes plant pathology and deals with the structure, life-history, and economic importance of the fungal organisms. Two lectures and two two-hour laboratory periods a week. *Four units winter quarter.*

**CHEMISTRY**

**CHEMISTRY 1.** This is a course in general chemistry, followed by a course in qualitative analysis. The work embraces the principles underlying chemical processes as well as the analytical and synthetical applications. Classroom work occupies two hours and laboratory work six hours per week. This course is required for all advanced work in chemistry and presupposes a course in high school chemistry. *Five units each quarter.*

**CHEMISTRY 5.** A general course for co-operative students, covering fundamental principles and the elements of qualitative analysis. Two conference periods and four hours of laboratory each week, alternate periods throughout the year. *Two units for the year.*

**CHEMISTRY 10.** This course deals with quantitative chemical analysis. The work is largely in the laboratory, acquainting the student with the commercial methods of analysis. Two two-hour laboratory periods and two conference periods per week are required throughout the year. Prerequisite: Chemistry 1. *Four units each quarter.*

**CHEMISTRY 12.** Organic chemistry. An introductory study of the carbon compounds; the laboratory course is an experiment study of the physical properties and chemical reactions of the common classes of organic substances. Classroom work occupies two hours and laboratory two hours per week. Prerequisite: Chemistry 1. *Three units each quarter.*
CITIZENSHIP 1. A course in social orientation. Upon the foundation of a thorough grounding in moral theory the student is led to construct his ideal of individual character; and to conceive clearly his practical relationships and obligations to the institutions of human society, including the family, the school, the governmental institutions and the industrial order. Required of all freshmen. Two hours throughout the year. Two units each quarter.

COMMERCE

ACCOUNTING 1. An introductory course dealing with the fundamental ideas of debit and credit applied in sole proprietorship, co-partnership, corporation and cost accounting. Students will have opportunity to acquaint themselves with calculating machines. Prerequisite to all higher accounting courses. Two lectures and two hours laboratory each week throughout the year. Three units each quarter.

SECRETARIAL TRAINING 10. A combined shorthand and typewriting course with emphasis on secretarial ethics, the ideals of secretarial service, filing devices and office appliances. Pre-requisite: Stenography 1. Daily two-hour periods throughout the year. Three units each quarter.

O'BRIEN

SECRETARIAL TRAINING 15. The same course as No. 10 will be given for co-operative students, alternate periods throughout the year. Three units for the year.

O'BRIEN

STENOGRAPHY AND TYPEWRITING 1. The principles of Gregg shorthand, supplemented by the reading of shorthand plates and speed practice, will constitute the work of the first quarter. During the second quarter dictation and transcription of miscellaneous business correspondence will receive particular attention. Five hours throughout the year. Typewriting five periods per week required. Three units each quarter.

O'BRIEN, TONEY

STENOGRAPHY AND TYPEWRITING 5. For co-operative students a special course in this subject will be given, following the outline of Course 1. Three units for the year.

O'BRIEN, TONEY

DRAWING

DRAWING 1. Instrumental practice and use. General preliminaries. Establishing standards and various symbols. Solution of practical geometrical problems and construction. Elements of projection drawing, orthographic, isometric, and auxiliary projections. Standard lettering is rigidly insisted upon, and the student must qualify both in neatness and in rapidity; the gothic alphabet is given preference. Two units each quarter.

BATES

DRAWING 2. Mechanical drawing of standard machine parts and conventions selected from standard handbooks on machinery. Machine vocabulary and correct forms of presentation and tabulation, with final machine assembly drawings and tracings preparatory to blue prints. Two units each quarter.

BATES

DRAWING 3. Sketching and rendering in pencil. Objects, scenes and original design. Four and a half hours per week. One unit each quarter.

BATES
DRAWING 10. In the course of architecture the student is given an opportunity to develop pencil sketching and reproduction leading up to a working knowledge of some of the typical classical orders in architecture. Then follows the conventional standards in practice in making architectural drawings, with some instruction and information given of commercial signs and equipment used in building construction. The above preparation is given previously to producing working drawings of a residence. This set of plans is to meet given requirements and local restrictions and must be thoroughly practical, with practical ideas incorporated. A minimum of three units a quarter is advised for students electing this course. Prerequisite: Drawing 1 or its equivalent. One unit per quarter for each three hour period.

DRAMATICS

DRAMATICS 1. A course devoted to the interpretation, staging and public presentation of representative plays. Two hours a week throughout the year. Two units each quarter.

ECONOMICS

ECONOMICS 1. A double course in Economic Geography and Economic History of the United States. The two subjects alternate in six-week periods to accommodate co-operative students who are eligible as well as regular students. Economic geography is a study of the physical environment of man in its relation to his activities in the ordinary business of making a living. Special emphasis is given to North America. Economic history of the United States treats of the efforts and institutions by which the American people have appropriated and used the resources of their country. Its purpose is to explain historically the present economic organization of this nation. Three units each quarter.

RIVERSIDE JUNIOR COLLEGE

ECONOMICS 10. Principles of economics. A study of the principles of economics, including such fundamental theories as those of value, rent, wages, and profits; with a consideration of the problems of society which arise from existing methods of production and distribution of wealth, such as railways, public ownership, combinations and trusts, socialism, and taxation. Limited to sophomores. Three hours throughout the year. Three units each quarter.

EDUCATION

HISTORY AND THEORY OF EDUCATION 1. This course includes a study of Greek, Roman and early Christian education, and of changes brought about by the Renaissance and the Reformation. It includes a study of the lives and philosophies of the great reformers in education. A study of the development of the American school system and of American methods in education concludes the course. Three units each quarter.

ENGINEERING

Work in engineering is arranged primarily for students in the Co-operative Course, since those preparing for an engineering career usually desire to obtain the valuable industrial experience which constitutes the laboratory part of this course. However, other students are permitted to take work in engineering, carrying two subjects for alternate periods throughout the year; for example, studying Surveying the first six weeks and Materials of Engineering Construction the next. Co-operative and other students begin in the third period where they stopped at the end of the first.

CO-ORDINATION 6. Discussions of engineering and commercial phases of the work done by students in Co-operative employment; study of the relationship of various college courses to each other and to the industries in which the students are engaged. American institutions and ideals; management problems and personnel relations; reports on various engineering and industrial systems; personal economics; inspection trips to power plants, cement mills, factories and various technical concerns within fifty miles of Riverside; frequent evening meetings, including both groups of co-operative students, for conferences with leading business men and engineers. Five hours each week for alternate periods. Open to co-operative students only. Two units for the year.
RIVERSIDE JUNIOR COLLEGE

DRAWING 5. All the regular courses in Drawing (page 23), as well as that in Engineering Drafting, are open to co-operative students, the instruction being individual and adapted to the work of each student. The time can be arranged as desired, and credit is allowed on the basis of one unit for three hours a week, alternate periods throughout the year.

BATES

ELECTRICITY 5. Elementary electrical engineering. Circuits; wiring calculations; principles of direct current generators and motors; operation and testing of machines; automobile starting and lighting systems; design and construction of electro-magnets; electrolysis and batteries; telephone circuits and instruments; principles of alternating generators; choke coils; transformers; single phase and polyphase currents; condensers and their use in telephony; lagging and leading currents; calculation of power in a.c. circuits; d.c. and a.c. motors; a.c. motors. Prerequisite: high school physics. Three one-hour conferences and one two-hour laboratory exercise each week. Section B periods only. Four units for the year.

BLISS

ENGINEERING DRAFTING 5. Elements of descriptive geometry; design of simple machine parts from the standpoint of strength and relative motions. Study by graphical methods of stresses in framed and trussed structures. Designed to familiarize the student with methods employed in standard production drawing in several engineering fields. Prerequisite: one year high school mechanical drawing or one-half year college mechanical drawing. Six hours per week for Section A periods only. Two units for the year.

BLISS

MATERIALS OF ENGINEERING CONSTRUCTION 5. The structural properties and practical adaptability of materials used in engineering construction. Materials studied include wood, steel, concrete and reinforced concrete as applied to trusses, arches, columns, abutments, road building, etc. Prerequisite: second year standing. Two one-hour conferences and one three-hour laboratory or field trip each week for Section B periods only. Three units for the year.

BLISS

MECHANICS 10. Analytical study of mechanics as applied to engineering; equilibrium; framed structures, centroids, rotation; moment of inertia, energy of rotating masses, power, machines, efficiency, harmonic motions. Students taking this course must have credit in Physics 1 (Mechanics) and must have registered for either Mathematics 10 or Engineering Computation 2. Three hours each week. Section A periods only. Three units for the year.

RIVERSIDE JUNIOR COLLEGE

SURVEYING 5. Use and care of instruments, including chain, level, transit, and plane tables; standardization of tapes; slope measurements; differential leveling; profiles and contours; grade lines; cross sectioning; transit work; traversing; compass bearings; topography; land surveys; plane table surveying. Prerequisite: Trigonometry. Two one-hour conferences and two three-hour exercises in field work and mapping each week. Four units for the year.

TWOGOOD

ENGINEERING COMPUTATION

Four years of applied calculation for engineering students in the co-operative course. Those who desire credit in college mathematics for transfer to some other institution should take the regular courses in mathematics instead of Engineering Computation. This work is designed to prepare for engineering practice rather than for advanced study. Two one-hour recitations and one three-hour conference each week, alternate co-operative periods for four years. (See detailed outline below.) Three units each year.

ENGINEERING COMPUTATION 5. Short cuts and checking methods for numerical calculations; logarithms; practice with the slide rule; calculating machines; engineering and mathematical tables; review of trigonometry and algebra; applications of elementary mathematics in problems on machines, electric circuits, etc.; co-ordinates; equations of curves. Three units for the first year.

TWOGOOD

ENGINEERING COMPUTATION 15. Solutions by trial and error; plotting curves from engineering data; logarithmic plotting; theory of limits; differentiation and its use in engineering; elements of integration. Practice in using engineering handbooks. Three units for the second year.

BLISS

ENGINEERING COMPUTATION 25. Methods of approximation; accuracy necessary in engineering calculations; curvature and applications to mechanics and light; permutations and combinations; theory of probability; the use of parabolic and catenary curves; practical integration. Three units for the third year.

BLISS

ENGINEERING COMPUTATION 35. Handling statistics; applications of integration; newton's laws of motion; vector analysis; trigonometric series; elementary analysis of curves. Three units for the fourth year.

BLISS
ENGLISH

ENGLISH 1. A general study of the chief forms of composition, oral and written, with outside reading and written reports. Constant theme writing and individual conferences. Three hours throughout the year. Three units each quarter.

ANDERSON

ENGLISH 5. For co-operative students only. The fundamental principles of composition, both oral and written. Correct usage—sentence construction, paragraphing, and structure. Collateral reading, written themes, and oral addresses before the class. Two hours a week alternating periods. Two units for the year.

ANDERSON

ENGLISH 10. English literature. An historical survey of the entire course of English literature, its leading periods, movements and masterpieces. Lectures, recitations, collateral reading and written reports on special topics. Three hours throughout the year. Three units each quarter.

ANDERSON

ENGLISH 11. Advanced Composition. First and second quarters, studies in descriptive and narrative writing, with special reference to the technique of the short story. Third quarter, expository writing, with relation both to the literary essay and to the preparation of extended papers and reports. Literary models will be studied and the constant writing of themes will be required. Open to a limited number of students who have passed English 1 or its equivalent. Two hours a week throughout the year. Two units each quarter.

ANDERSON

ENGLISH 12. Public Speaking. A study of the principles and practice of oral discourse. Voice culture, the use of words, the building of the speech, exposition, argumentation, and debating are among the topics covered. Constant practice in the preparation and delivery of speeches, for criticism in class, is required. Prerequisite, English 1 or its equivalent. Two hours throughout the year. Two units each quarter.

DYKES

ENGLISH 15. For co-operative students only. This course is a continuation of English 5. It includes oral argument and debating, parliamentary procedure, and a brief survey of contemporary literature. Collateral reading, written themes, and oral addresses. Prerequisite: English 5 or its equivalent. Two hours a week alternating periods. Two units for the year.

RIVERSIDE JUNIOR COLLEGE

FRENCH

FRENCH 1. Elementary French. Stress is laid on accurate pronunciation and the essentials of grammar. Three easy French texts are read, which form the basis for careful translation, conversation and composition work. Four hours throughout the year. Four units each quarter.

RICHARDS

FRENCH 2. Further study of grammar, especially syntax. Composition. Reading of modern French novels and plays, with oral and written exercises based on them. Dictation and memorizing of prose and verse. Outside reading. Prerequisite: two years of high school French or French 1. Four hours throughout the year. Four units each quarter.

RICHARDS

FRENCH 10. Study of the work of the most important authors of the nineteenth century. Outside reading and written reports in French. Advanced French composition and conversation. Prerequisite: French 2 or four years of high school French. Four hours throughout the year. Four units each quarter.

RICHARDS

GEOGRAPHY

GEOGRAPHY 1. General physical geography eighteen weeks; physical geography of the United States eighteen weeks. Two lectures and two double-period laboratory exercises each week. One or more excursions each quarter. Davis & Snyder, "Physical Geography", Ginn & Co., recommended text. Four units each quarter.

EGGLESTON

GEOLOGY AND MINERALOGY

GEOLOGY 1. General geology eighteen weeks; historical geology eighteen weeks. Two lectures, one double-period laboratory exercise, and one afternoon field trip each week. Scott, “Introduction to Geology,” Macmillan Co., recommended text. Four units each quarter.

EGGLESTON

MINERALOGY 1. Elementary crystallography and blowpipe analysis eighteen weeks; determinative mineralogy eighteen weeks. One lecture and one double-period laboratory exercise each week. Three or more half-day collecting trips during the spring quarter. Dana, "Text-Book of Mineralogy," Wiley & Sons, recommended text. Two units each quarter.

EGGLESTON
GERMAN

GERMAN 1. A course for beginners. Elementary grammar and prose composition. Special training in pronunciation and simple conversational exercises. Reading of about 400 pages of easy German selected from the stories of Heyse, Storm, Gerstacker, Fulda and Baumbach. Conversational exercises and oral composition based on texts read. This course is intended to prepare for the course in scientific German. Four hours throughout the year. Four units each quarter.

GERMAN 2. A course in scientific German will be offered to enable candidates to meet the requirements for entrance into the scientific courses offered by the various universities. Three hours throughout the year. Three units each quarter.

GREEK

GREEK 1. Elementary Greek. Texts: White's First Greek Book, Xenophon's Anabasis or Cyropaedia, and Pearson's Prose Composition. Occasional sight reading in the New Testament during the second semester. Four hours a week throughout the year. Four units each quarter.

GREEK 2. Greek life and thought. A lecture-recitation course dealing with Greek ideals and achievements in art, literature, philosophy, religion, government, education, and science. The aim of the course is to interpret modern civilization in the light of its Greek inheritance, and to stress those things that are of permanent worth for the life of the twentieth century. Assigned readings and reports. Two hours a week throughout the year. Two units each quarter.

GREEK 10. Plato: the Apology and selections from other dialogues. Homer: Iliad or Odyssey (selected books). Prerequisite, Greek 1. Three hours a week throughout the year. Three units each quarter.

LATIN

LATIN AB. An intensive course covering the work of the first two years of Latin. Special attention given to pronunciation and grammatical construction. Open to students who have had no high school Latin. Four hours a week throughout the year. Four units each quarter.

LATIN CD. Cicero: selected orations and letters. Virgil: the Aenid. Prerequisite: two years of high school Latin or Latin AB. Four hours a week throughout the year. Four units each quarter.
LATIN 3. Cicero's De Senectute; Horace's Odes and Epodes; Pliny's Letters; Terence's Andria or Adelphoe. Open to first year students who have completed the four years high school Latin course. Involves, in addition to textual study, an interpretation of Roman life and ideals; also a general survey of antiquities. Three hours a week throughout the year. Three units each quarter.

LATIN 10. Livy, selections; Horace: Satires and Epistles; Tacitus: Agricola and Germania; Plautus: Menenclitis, or Catullus, selections. Open to those who have completed Latin 2. Involves critical study of authors together with an outline study of Roman literature. Three hours a week throughout the year. Three units each quarter.

LATIN COMPOSITION 11. Practical exercises and rapid supplementary reading. Open to students who have completed Latin 3. One hour a week throughout the year. One unit each quarter.

LOGIC 1. A study of the nature and setting of thought, classification, definition, the logic and implications of propositions, the mechanism of the syllogism and of extra-syllogistic forms occupies the first eighteen weeks. This is followed by an examination of the nature of induction, observation, hypothesis, causal relation, statistics, probability and system formation. Three hours throughout the year. Three units each quarter.

MATHEMATICS 1. A course in statistics and its mathematical interpretation. Solution of practical problems in finance, insurance, biology, genetics, agriculture, chemistry, physics, and other fields of applied mathematics. Prerequisite: two years of high school algebra. Three hours a week throughout the year. Three units each quarter.

MATHEMATICS 2. Mathematical theory of investment. Prerequisite: two years of high school algebra and plane trigonometry. Two hours a week throughout the year. Two units each quarter.

MATHEMATICS 3. Plane analytic geometry and differential calculus. Woods and Bailey: pages 1-222. Prerequisite: four years of high school mathematics. Five hours a week throughout the year. Five units each quarter.

MATHEMATICS 10. Integral calculus, solid analytic geometry, partial differential calculus, multiple integrals, and infinite series. Woods and Bailey: pages 222-438. Prerequisite: four years of high school mathematics and Mathematics 3. Five hours a week throughout the year. Five units each quarter.

MILITARY SCIENCE AND TACTICS—R. O. T. C.

Under the provisions of an act of Congress passed in June, 1916, military training is given in certain educational institutions in the country. This was an enlargement of the National Defense Act of 1898, which required military training for the first two years at all state colleges which were receiving Federal aid. The school authorities are required to make a bond to cover the value of all uniforms and equipment furnished to the institution. The Government furnishes a competent corps of instructors, and all uniforms and equipment necessary for students. The only requirement from the student is a deposit of $2.50 to cover any possible loss of equipment or damage to same, other than the ordinary wear and tear of service, and a minimum of three hours a week for military instructions.

The primary object of Reserve Officers Training Corps is to qualify college students for commissions in the Officers Reserve Corps; a corps from which the country would be able to obtain officers in the subordinate grades in case of emergency. Enrollment in the R. O. T. C. does not obligate the student to enter the Officers Reserve Corps; it simply qualifies him for a commission if he so desires. Members of the R. O. T. C. are not subject to call for strike duty or any service in the army.

Graduates of Junior College who have satisfactorily completed three years work in the R. O. T. C. unit at this institution are eligible for enrollment in the Advanced Course at such college. If admitted to the advanced course they will receive from the Government, in addition to their uniforms, a sum of approximately fifteen dollars a month for the full two years in the advanced course.
RIVERSIDE JUNIOR COLLEGE

MILITARY TRAINING 1. Practical. Three one-hour periods per week to cover infantry drill and combat leadership; gallery practice; care of arms and equipment; first aid and hygiene. One unit each quarter.

MILITARY TRAINING 2. Theoretical. Two one-hour periods per week covering class-room work in infantry drill regulations, army regulations, field service regulations, manual of interior guard duty, map reading, map making. Two units each quarter.

FIELD, RICHARDSON

Military Training 1 will be voluntary for all students. Military Training 2 will be compulsory for all Junior College students who enroll for Military Training 1.

MUSIC

MUSIC 1. Musical History and Appreciation. Lectures on the history of music of all nations; biographical sketches of famous composers and their relation to the progress of musical art. Assigned readings and frequent musical illustrations. The course is non-technical. Two hours throughout the year. Two units each quarter.

RICKARD

MUSIC 2. Harmony. A study of intervals, scales, and chord construction. Harmonization of melodies. Special drill in ear training. Study of terms and definitions commonly used in music. Three hours throughout the year. Three units each quarter.

RICKARD

MUSIC 3. Appreciation of music. This course is designed especially as an aid to the enjoyment and understanding of the best music. Many examples of the various types of vocal and instrumental music. Primarily for co-operative students. Two hours each week. One unit for the year.

RICKARD

PHYSICAL EDUCATION

The purposes of these physical education courses are: first, to correct faulty posture and physical irregularities; second, to develop all-around healthy bodies; and third, to teach the individual to conserve his or her health through regular healthful physical exercise. The work in these courses comprises postural training, corrective exercises, folk dances and games for women, and instruction in games and athletics.

WILSON

All men who are not taking Military Training and all women are required to take Physical Education.

PHYSICAL EDUCATION. Women 5. General physical education. Compulsory for all women. Body-building calisthenics, gymnastic and folk dances, gymnastic games, group and team competition in volley ball, basketball, tennis, baseball, and athletic events best adapted to women. Four hours throughout the year. One unit each quarter.

WILSON

PHYSICAL EDUCATION. Men 1. Men in this course will be grouped according to ability and given instruction and supervision in organized competition in soccer, playground ball, baseball, basketball, volleyball, and track and field athletics. Prerequisite: Physical Education, Men 2. Four hours throughout the year. One unit each quarter.

MUMMA

PHYSICAL EDUCATION. Women 5. General physical education. Compulsory for all women. Body-building calisthenics, gymnastic and folk dances, gymnastic games, group and team competition in volley ball, basketball, tennis, baseball, and athletic events best adapted to women. Four hours throughout the year. One unit each quarter.

WILSON

PHYSICAL EDUCATION. ATHLETICS, Men 8. Men who can pass the requirements of Physical Education Men 2 and can in addition pass the required thorough physical examination for this course may select this course in place of Physical Education Men 1. The work of this course will be the developing of the college representative athletic teams. Those enrolling in this course will be under the instruction of the college athletic coaches and trainers. Prerequisite: Physical Education, Men 2. Five hours throughout the year. One unit each quarter.

WILSON, MUMMA

PHYSICS

PHYSICS 1. Mechanics and heat. Units and measurement; velocity and acceleration; vector quantities; dynamics and statics; circular motion; elasticity; surface tension; harmonic motion; mechanics of liquids and gases; temperature; expansion; change of state; refrigeration; Three one-hour conferences and two hours of laboratory work each week. Four units each quarter.

BLISS, TWOGOOD
PHYSICS 10. Electricity, sound and light. Magnetism; static electricity; electric currents; electrolysis; generation of electric energy; measurements of resistance, power, etc.; induction; applications in industry and engineering; sound; wave motion; music; light; photometry; geometrical optics; color; polarization. Two one-hour conferences and two hours of laboratory work each week. Three units each quarter. Bliss, Twogood

POLITICAL SCIENCE

POLITICAL SCIENCE 2. (a) A consideration of the fundamental attributes of government, its origin, its form, and the functions of electorate and parties. (b) The government and parties of Great Britain and her self-governing dominions, France, Belgium, and Italy. (c) The governments of Switzerland, Germany, Russia, Japan and the United States. Three hours throughout the year. Three units each quarter. Paul

PRINTING

PRINTING 1. Elementary. Study of the case, printers' appliances and terms; point system; type sizes and styles; fundamental operations in handling type; proofreader's marks; proofreading; English and arithmetic applied to printing; history of printing; pamphlet binding. Six hours throughout the year. Two units each quarter. Paul

PRINTING 2. Advanced work in composition; laying out and preparing copy; designing; imposition and lockup; job press make-ready and feeding; arithmetic and proofreading; history of printing; allied industries. Open to those who have had printing 1 or its equivalent. Six hours throughout the year. Two units each quarter. Moore

PRINTING 3. Independent designing and producing of printed matter; cylinder press make-ready and feeding; machine composition (monotype keyboard and caster); shop management. Open to those who have had Printing 1 and 2 or their equivalent. Six hours throughout the year. Two units each quarter. Moore

PRINTING 10. Machine composition. This course is designed for the student who wishes to enter the printing trade as an operator of the monotype keyboard or caster. Open to those of sufficient previous experience, subject to the approval of the instructor. Open to women. Nine hours throughout the year. Three units each quarter. Moore

PSYCHOLOGY

PSYCHOLOGY 10. The science of mental life. A general introduction to a scientific study of mental processes or activities, including reactions, and reaction tendencies, instinct, emotion, feeling, sensation, attention, perception, memory, imagination, habit formation, the laws of association, reasoning, will, and personality. Two hours throughout the year. Two units each quarter. Boardman

PSYCHOLOGY 5. This course includes a brief study of the original nature of man—his instruction, equipment and natural capacities, the conditions and best methods for effective work which includes a study of such psychological factors as fatigue, drugs, and sleep. This course also takes up the attitude, content and technique of applied psychology in the special fields of industry, business law, medicine and social sciences. A course primarily for co-operative students. Three hours each week, alternate periods. Three units for the year. Fraser

PSYCHOLOGY 8. Educational and mental tests and measurements. This course is conducted primarily for prospective teachers; but as the application of tests and measurements in vocational and industrial fields give it a secondary interest to social workers and to those who wish to follow the economic trend of the subject, the course is made as definitely practical as possible. A major portion of the time of the class is given up to the actual giving and scoring of mental and standardized educational tests, and to the computations of data, the graphic representation and diagnosis of results. The instructor is in charge of this work in the Riverside schools, and the classes both for practice and as a direct social service aid in securing and compiling data in this field for use in the administrative department of the city schools. The course covers:

1. The theory and history of educational and mental measurements.
2. Current progress in the application of tests and measurements as reflected in the leading journals of psychology and education.

3. The comparative study of various individual and group mental tests, standardized achievement and aptitude tests.

4. The technique of administering tests.

5. The computation of educational data, its graphic representation and use.

RIVERSIDE JUNIOR COLLEGE

SHOP

AUTO MECHANICS 3. Advanced automobile repairing, including all repair work pertaining to the complete overhauling of the automobile. Special emphasis will be laid on the proper diagnosis of all automobile troubles. Trouble shooting, auto electrics, handling of storage batteries, carburetion, cooling systems, lubrication systems, clutches, transmissions, final drives, motor testing, computation of horse power, displacement, compression space, testing of fuels, testing of oils, floor work, and a course in foremanship will be given in this course. Three hours twice a week. Two units each quarter. PARKER

MACHINE SHOP 2. Thorough drill in accurate turning and threading to the micrometers, all work being held to a limit of .0005"; figuring dimensions, choosing stock, and machining to commercial standards in time and quality; designing machines and tools; the working of different metals, their adaptability and the effect on them of different speeds and feeds; results of overheating and underheating metals while being prepared for use; the heat treatment of steel in gas furnaces, case hardening, and cyaniding; the proper place for case hardened mild steel and for hardened tool steel; the manufacture of reamers, taps, dies, forming tools, and gear cutters; gearing in its different branches. Three hours twice a week. Two units each quarter. PARKER

WOODWORKING 1. Cabinet making and carpentry, including wood turning. Study of woods; growth and strength; care and use of hand tools used in cabinet making; study of joints as applied in furniture making and house building; proper care and use of the woodworking machines; shop management, including the best arrangement of machines, storing lumber, waste lumber problems, keeping supplies such as sandpaper, oils and paint, nails, tools, etc.; visits to commercial shops. One unit per quarter for each three-hour laboratory period. HOUGHTON

WOODWORKING 2. Pattern making. Relation to industries; essential requirements for successful work; machine designing as regards strength and proper molding; study of foundry methods; inspection of foundries and pattern shops; study of various types of patterns and best construction for same; best materials used in pattern making. This course includes actual construction of patterns and molding of same, together with lecture work. One unit per quarter for each three-hour laboratory period. WIGLEY

SOCIETY

SOCIOLOGY 1. A study of society. Observations of societal relationships in the making, fundamental marks of a social group; causation and development, the genetic concept of social life, and the biological presuppositions of human society. A careful study of the three great determinants of social progress: physical environment, the psycho-physical nature of man, and social heredity. Brief treatment of the evolution of typical social institutions, the family, the state, the church, etc. Three hours throughout the year. Three units each quarter. BOARDMAN

SPANISH

SPANISH 1. Elementary Spanish. The essentials of Spanish grammar with careful drill on pronunciation, reading, and writing: dictating and memorizing; translation of short stories and plays with conversation based on Spanish texts. Collateral reading, with discussions in Spanish by the class. Four hours throughout the year. Four units each quarter. O'NEILL

SPANISH 2. Second year Spanish. Advanced grammar, syntax, and memorizing; composition and reading of about 1000 pages of modern novels, plays and short stories. Collateral readings with reports in Spanish. The composition work is supplemented by dictation relative to the Spanish speaking countries. Prerequisite: two years high school Spanish or Spanish 1. Four hours throughout the year. Four units each quarter. O'NEILL
SPANISH 5. A practical adaptation of Course 1, given primarily to meet the needs of co-operative students. Emphasis will be laid upon conversation, reading material relating to Spanish speaking countries, letter-writing, memorizing, and the acquisition of a ready familiarity with sufficient grammar to enable the student to use the ordinary forms of the language correctly. Three hours each week. Three units for the year.

SPANISH 10. The modern and contemporary Spanish novel and drama. Selections from the works of important novelists and dramatists are read and discussed in class, and as collateral work with reports in Spanish. History of the development of the Spanish novel and drama. Advanced theme writing based upon selections read. Prerequisite: four years of high school Spanish or Spanish 5. Four hours throughout the year. Four units each quarter.

ZOOLOGY

ZOOLOGY 1a. General Zoology. An introductory course in the fundamentals of animal life. It aims to present a general view of the animal kingdom; the morphology of animal types, their classification, physiology and development. Three lectures and four laboratory hours. Five units first quarter.

ZOOLOGY 2a. Study of the fundamental principles of animal relationships, behavior and distribution. During the last part of the course lectures dealing with the history of zoology, its leaders and their great discoveries will be given. Three lectures and four laboratory hours. Five units second quarter.

ZOOLOGY 3c. A general course in the morphology and classification of vertebrate animals with special studies in the behavior, geographical distribution, and the economic status of local species. Field observations and studies of living animals in the laboratory. Dissections. Prerequisite: General Zoology. Three lectures and four laboratory hours. Five units third quarter.
Two years ago Riverside Junior College inaugurated a system of engineering education in co-operation with the major industrial and engineering establishments of Riverside and neighboring cities. The first year's operation showed the feasibility of the plan, and its scope was increased to include commercial work and to admit women as well as men students to the enjoyment of its benefits. The enrollment more than doubled in the second year, and the number of firms willing to co-operate with the college in training the future leaders of industry and business increased to include most of the larger organizations in Riverside and several other cities.

While the co-operative plan had been adopted by the more progressive eastern colleges, notably the University of Cincinnati, Antioch College, and the Massachusetts Institute of Technology, no public institution in the west except Riverside Junior College has yet attempted to give its students the advantages of this type of course.

In brief, the plan includes alternate monthly periods of study and employment, co-ordinated so that the work serves practically as the laboratory part of a unified course of training. Two students hold a single position, carrying on the work in alternation, so that the employer receives continuous service. At the college special courses are arranged for co-operative students, taking up the instruction, when they return, at the point where they stopped a month before. The students keep in touch with the institution while away at work, mailing in reports of home study and attending evening co-ordination meetings. Furthermore, during the period at college, they maintain contact with their jobs through occasional conferences with their alternates.

Careful study and investigation of the development of leaders in industry and business is now under way by a joint committee of the Society for the Promotion of Engineering Education and the National Industrial Conference Board. A recent report of the progress of the investigation contains the following passages in regard to the co-operative plan:

"There is a growing opinion that the engineering schools should provide a thorough grounding in fundamentals of engineering and applied sciences, rather than specialized training. Such grounding is best accomplished when accompanied by actual contact with industry as well as by work in classroom and laboratory."

"Both the normal progress in industrial methods and the approaching new competitive conditions will require a more rapid increase than ever before in the quality and number of trained experts and leaders."

"Limitation of the undergraduate courses to thorough education in the fundamentals and the employment of students in industrial pursuits during the undergraduate period will afford time and develop the basis for a progressive and, in the end, more effective determination of the life work of the student, which is now done largely in a more haphazard way and principally in the last period of undergraduate training."

"The co-operative methods which have been inaugurated by the University of Cincinnati and some fourteen other schools in the United States are producing admirable results, and these methods can undoubtedly be extended to advantage."

CO-OPERATORS

In administering Co-operative Education the Riverside Junior College is fortunate in having an Advisory Board of leaders in business and industry composed of the following:

Arthur B. West, Southern Sierras Power company.
Harry M. May, Exchange Lemon Products Company.
During the year 1923-24 the following firms have employed the students of the Riverside Junior College on the co-operative basis:

Southern Sierras Power Company, Riverside.  
G. Stanley Wilson, architect, Riverside.  
Exchange Lemon Products Company, Corona.  
Electric Light and Power Department, City of Riverside.  
G. Rouse & Company, Riverside.  
Hanford Iron Works, San Bernardino.  
A. C. Ferrier, contractor and builder, Riverside.  
Edison Electric Appliance Company, Ontario.  
Reynolds Department Store, Riverside.  
Frank C. Nye Company, builders, Riverside.  
Riverside Portland Cement Co., Riverside.  
Cresmer Manufacturing Company, Riverside.  
Coldren's Electric Shop, Riverside.  

In addition the following employers have agreed to co-operate when positions are needed for students:

Stebler-Parker Iron Works, Riverside.  
Street Department, City of Riverside.  
Glenwood Mission Inn, Riverside.  
Los Angeles Pressed Brick Company, Alberhill.  
United Chemical Works, Corona.  
First National Bank, Riverside.  
Water Department, City of Riverside.  
Parker Iron Works, Riverside.  
Parker Iron Works, San Bernardino.  
Royal Steam Laundry, Riverside.  
George F. Mott, furniture, Riverside.  
Alfred M. Lewis, groceries, Riverside.  
Security Investment Company, Riverside.  
Pacific Fruit Express, Colton.  
Hall-Johnson Construction Company, Los Angeles.  
Franzen Hardware Company, Riverside.  
Baekstrand and Grout, Riverside.  

Western Reinforced Concrete Pipe Company, Los Angeles.  
Security Title, Insurance and Guarantee Company, Riverside.  
Reed Stationery Company, Riverside.  
Pacific Balloon Company, Riverside.  
Wright's Garment House, Riverside.  
J. C. Penny Company, Riverside.  
Twogood's Gift and Photo Shop, Riverside.  

COURSE OF STUDY

Special courses in English, Economics, Science, Engineering, Stenography, Accounting, etc., are administered at the college for co-operative students, while their work in business and industry constitutes an allied laboratory course. The two branches of instruction are joined through the activities of the "co-ordinators" men who keep in touch with students on the job and with the co-operating employers, and who conduct classes in "Co-ordination" in which all phases of the work are fully discussed and analyzed. The co-ordinators are also responsible for assigning students to jobs which will afford the training necessary for development; should occasion warrant, they transfer them from one department or employer to another.

Since co-operative students spend only half time at the college, it takes them usually two years to cover the same amount of academic instruction that other students obtain in one year. Some exceptionally rapid workers are able to cover the entire course in three years, but on account of the high value of the supervised practical experience, students are advised to devote four years to the co-operative course. At the end of that time some will elect to enter a higher institution, such as the State University, for two years of specialized instruction, but the majority will prefer to enter industry or business directly.
Following are outlined curricula for engineering and commercial courses. The number of credits for each course is calculated on the basis of one unit for one lecture, recitation, or laboratory period each week for alternate months throughout the year. Credit for Co-operative Employment, 12 units a year, is sufficient to make a total of 124 hours credit for the four years if the student carries an average of 19 units of academic work. Most of the credits are transferable to other institutions, but some of them, such as those for Co-ordination and for Co-operative Employment, are not accepted in institutions which do not give co-operative education. It is possible to vary from the schedule outlined below, particularly where a course, such as Materials, for instance, is given only to one section of co-operative students during one year; those in the other section may take such subjects later or earlier as may be convenient.

**ENGINEERING COURSE**

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<td>Secretarial Training</td>
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<tr>
<td>Elective</td>
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<td>3</td>
<td>(6)</td>
<td>(6)</td>
<td>31</td>
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</table>

Where parentheses appear, they indicate a choice between subjects; in general, students will not take more than one of those so marked.

**REQUIREMENTS FOR ADMISSION**

In justice to co-operating employers, only young men and women of ability, common sense and serious purpose can be given the special advantages they provide. Students will be selected who give evidence of power to make good both in work and study. Candidates for admission to the co-operative course must be high school graduates or have had equivalent training. Those contemplating an engineering course must have credit for satisfactory work in trigonometry and physics or chemistry. Successful experience in vacation work is an added asset which will prove valuable in gaining admission to the co-operative course.

Good positions will be available for co-operative students during the summer of 1924. Those interested in entering the course are advised to make application.
as early as possible in order to secure the best opportunities for remunerative summer employment. High school students expecting to graduate in June should send in applications in May if possible, in order that the college may have ample time for the investigation of records and references before the registration date, June 14.

INCOME AND EXPENSE

While it is to be emphasized that the great value of the co-operative course lies in the practical experience it gives, and the invaluable guidance it provides in the selection of one's vocation, still an important feature is the income derived from the co-operative employment. The amount varies with the employer, the student and the type of work selected. In general the income is nearly or quite enough to pay all college and living expenses, and a few students succeed in saving something toward paying the cost of higher education later. However, some employers require a probationary period without pay, and in certain cases where the student receives exceptional opportunities for varied experience, the salary is as low as five dollars a week. On account of these factors and the initial expenses of fees, books, etc., students are advised to have a fund of $100 or $200 to draw on at the start, even if it is necessary for them to pay their own way entirely thereafter.
I. GENERAL INFORMATION

The opening day of each college quarter is Registration Day. Students will register in the college library between 9:00 a.m. and 4:00 p.m. Those registering at any time later than the time appointed will be assessed $1.00. Registration will be regarded as completed only when all fees are paid. Failure to make full payment subjects the student to the penalty imposed for late registration. After the close of the fourth week of any college quarter, no applicant for admission to the Junior College will be enrolled except by transfer from another institution of equal standing.

A student who fails in any given quarter to pass in at least ten units of work will not be permitted to register in the quarter following.

II. PROGRAM REQUIREMENTS

1. Military training or physical education is required of all students. Choice should be indicated on the program card. Exemption from military training or physical education will be granted only on presentation of a physician's certificate. This should be presented at the time of registration.

2. The course in citizenship is required of all freshmen.

3. English 1 is required of all students who expect to receive the Junior College Diploma or the Junior Certificate.

4. Twelve semester units (eighteen J.C. units) of college science are required for admission to upper division classes in the University of California. High school physics (3 semester units) or high school chemistry (3 semester units) or both (6 semester units) may be offered toward satisfying this requirement.

5. No one may enroll for less than 10 units or more than 18 units (including military training or physical education) without special permission from the chairman of the Admission and Classification Committee. Students are cautioned against enrolling for more units than they can reasonably carry. The standard is 16 units.

6. A mark of failure, condition, or incomplete received at the end of any quarter limits the student concerned to 16 units (including physical education or military training) the following quarter until such failure, condition, or incomplete is removed.

7. The student should carefully consider the courses described in this catalog before submitting his program to the registration committee for approval. If he so desires, he may confer with any member or members of the advisory committee (see page 52) appointed to assist students in preparing their programs.

8. In case of doubt as to whether a particular course is open to him, a student should secure the written approval of the instructor concerned and file such approval with the chairman of the Registration Committee before registering.

9. A student activities card will be issued to the registrant upon presentation of registration card to the president or secretary of the Associated Students.

III. PROGRAM CHANGES

Students' programs may be changed at any time within the first three weeks of any quarter; that is, a course or courses may be dropped, or others added, provided that all changes are submitted to and sanctioned by the Director of the Junior College or the chairman of the Admission and Classification Committee within the three weeks specified.

At the end of the third week programs are to be regarded as fixed, and no laboratory fees will be refunded thereafter. Request for any change in program after the third week must be made by written petition, which will be granted only for extraordinary reasons. (Use Petition Form B, which may be secured at the office).

During the last four weeks of any quarter, no course
or courses may be officially removed from a student’s program for any reason. If, however, because of illness or other unavoidable circumstance, or as a matter of expediency, a student desires to discontinue attendance upon a course or courses, a written request to this effect, duly approved by the instructor concerned, will be automatically sanctioned by the Director or chairman of the Admission and Classification Committee. A course thus discontinued remains, however, upon the program card, the student receiving at the end of the quarter whatever grade the work and circumstances warrant: failure, condition, or incomplete.

FACULTY ADVISERS

The following members of the faculty not only will assist students in arranging their programs of studies at the time of registration, but will serve in the capacity of advisers throughout the college year:

Mr. Anderson
Mr. Bliss
Mr. Boardman
Miss Fraser
Mr. Houghton
Mr. McDermont
Miss O'Neill
Mr. Rea

CLASSIFICATION

The class in which a student is to be ranked is determined by the following scale of units, each figure being the minimum for standing in the class named:

Freshman—Fifteen entrance credits.
Sophomore—Forty-two college credits.

MARKING SYSTEM

For passing work four grades of scholarship are indicated as follows: A, excellent; B, good; C, fair; D, barely passed. For failure to pass, three grades are indiciated. Inc., incomplete, denotes that for reasons beyond the student’s control some required work of the class has been omitted or unsatisfactory, and that credit will be withheld until the work in question is made up. E, conditioned, denotes that some portion of the work has been unsatisfactory, but by means of examination or other special assignment the deficiency may be made up and credit for the course eventually given. F, failure, indicates that the work has been wholly unsatisfactory, and that no credit will be given save upon repetition of the entire course.

RULES GOVERNING ATTENDANCE

Within three days after the return of a student who has been absent from any class or required exercise, the absentee should file with the Secretary to the Director, for the Committee on Relations and Adjustments, a written statement giving his reasons for each absence for which excuse is desired. Failure to file such a statement will render the absence inexcusable. Three tardinesses from the same class will be considered as one absence. When the number of unexcused absences in any course exceeds the number of exercises per week in that course, the student becomes automatically conditioned in said course. Such condition may be removed only by special examination in the subject at some time subsequent to the end of the semester in which the absences occur, and not later than the final date specified in the catalog for removal of conditions.

The exact date for an examination for the removal
of a condition shall be arranged with the instructor in charge of the course.

A fee of one dollar for each examination is required, a receipt for which, from the Director's office, shall be presented to the instructor prior to the examination.

COLLEGE BILLS

All college bills are payable at the time of registration. Each student is required to pay a student activities fee of $5.00 for the college year. This fee will not be refunded in case of withdrawal. This entitles the student to membership in the Student Body of the college and admission to such junior college athletic contests as are held at the Junior College, and a year's subscription to the college paper.

A breakage deposit of $5.00 is required for each laboratory course in chemistry and in physics. At the end of the course breakage costs are deducted and the balance of the deposit is returned.

A laboratory fee is required each quarter in all science courses except geology. Fees are payable at the time of registration. No fee will be refunded after the end of the first month of each quarter.

LABORATORY FEES FOR EACH QUARTER

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<td>Chemistry</td>
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<tr>
<td>Electricity</td>
<td>$2.00</td>
</tr>
<tr>
<td>Geography</td>
<td>$2.00</td>
</tr>
<tr>
<td>Mineralogy</td>
<td>$2.00</td>
</tr>
<tr>
<td>Physics</td>
<td>$2.00</td>
</tr>
<tr>
<td>Typewriting</td>
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</tr>
<tr>
<td>Sec. Training</td>
<td>$1.00</td>
</tr>
<tr>
<td>Zoology</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

ASSEMBLIES

A daily assembly is held at 11:35 o'clock. Students are required to attend.

THE CAFETERIA

Junior College students who so desire may avail themselves of the services of the Polytechnic High School cafeteria, located in the Classics building of the high school, which serves luncheon every college day at convenient hours. This cafeteria is under the management of the high school authorities, so that pure foods and reasonable prices are assured.

The services of the cafeteria are also available for any sort of entertainment at which food is served, from light evening refreshments to a full college-community banquet.

STUDENT ORGANIZATIONS

The students of the Junior College are organized into the Associated Student Body under the leadership of duly elected student officers and board of control. This Student Body has the direction of all student activities and social entertainments.

In addition to the Associated Student Body the women students have their own Woman's Organization. The women students have also an active college branch of the Y. W. C. A.

STUDENT PUBLICATIONS

The Tequisquite, the Junior College annual, is published in June of each year, and contains pictures, descriptive matter, and original literary compositions of interest to students and alumni.

The students also publish a bi-weekly college newspaper known as the Junior Colleger.

DEBATING

The Junior College is a member of the Southern California Junior College Triangular Debating League, composed of the six leading junior colleges of the south-
ern part of the state. This league holds two sets of triangular debates each year, the winning team from each of the sets meeting the other winning team in a dual debate for the championship. Riverside is joined with Chaffey and Pomona.

ATHLETICS

In athletics the Junior College students support teams in football, baseball, tennis, men’s basketball, and women’s basketball. The Southern California Junior College Conference, the membership of which is the same as that of the Triangular Debating League, provides the necessary means for intercollegiate competition in these sports.

DRAMATICS

The regular Junior College play, the parts in which are assigned according to the result of a competition open to all students, is presented in December of each year. In addition to this, an operetta or musical comedy is given in the spring.

GLEE CLUBS

Active glee clubs for both men and women, under the leadership of the director of music, furnish the students with adequate opportunity for musical expression.

ASSOCIATED STUDENT BODY OFFICERS

1923-1924

President—Harmon Brown
Vice President—Morse Busey
Secretary-treasurer—Walter Hunsaker
Debating Manager—Joseph Edmiston.
Men's Athletic Manager—Orland Noble
Women’s Athletic Manager—Lois Van Pelt
Dramatic Manager—Paul Harper.

ASSOCIATED WOMEN’S STUDENT OFFICERS

1923-1924

President—Elizabeth Clark,
Vice President—Eleanor Neblett
Secretary—Dora Sager
Treasurer—Lorena Brown

Y. W. C. A. CABINET

1923-1924

President—Geneva Gary
Vice President—Lois Van Pelt.
Secretary—Cecelia Anderson
Treasurer—Elenor Hankins.
Undergraduate Representative—Elizabeth Clark
Chairman, Program Committee—Helen Sharp
Chairman, Religion Committee—Myrtle Leak
Chairman, Social Committee—Neva Esgate
Chairman, Social Service Committee—Kathleen Gillies
Chairman, Publicity Committee—Eleanor Neblett

THE HONOR SOCIETY

The Riverside Junior College Honor Society was organized in February, 1921. Its purpose, as set forth in its constitution, is "the promotion of scholarship among the students", by affording public recognition to those who achieve academic distinction.

This society includes as associate members all residents of Riverside who are members of honorary academic and scientific societies; and every year it receives as active members those students of the Junior College who have consistently maintained for five quarters the highest standard of scholarship.

The election for active membership in the current year will be held in June.
STUDENTS GRANTED JUNIOR COLLEGE DIPLOMA
1923

Dorothy Ambs
Bertrice Baxter
Alice Dorris Boardman
Ruth Burrows
Hugh Joseph Byrne
Margery Catherine Campbell
Daniel George Dinsmore
Helen Barbara Dinsmore
Marion Dixon
Josephine Caroline Garnt
Gladys Marie Gilbert
Kathleen Gillies
Doris Lyon Gordon
Edith Florence Gorman
Arthur Edward Harris
Constance Hammond
Katherine Cook Jones

Caroline Louise McClure
Charlotte Audrey Manifold
John Malloch Mylne, Jr.
Enid Irving Mylne
Kathleen Mylne Mylne
Sarah Eugenia Neblett
Elizabeth Virginia Newton
Candace Porteous
Gordon Inglish Bayburn
Hayzel Aileen Russell
Robert William Russell
Doris Lucille Schultz
Maurine Newton Sims
Alice Tucker
Lawrence Elbert Webster
Juanita Faye Wood

Student Register
1923 - 1924
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