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1946-47

Vol. XXXIX, No. 1

February, 1946



University of Arizona Record

UNIVERSITY EXTENSION DIVISION

CORRESPONDENCE COURSES

BIENNIAL ANNOUNCEMENT

1946-1948



PUBLISHED BY
University of Arizona
TUCSON, ARIZONA

195630

University of Arizona Record

Vol. XXXIX, No. 1

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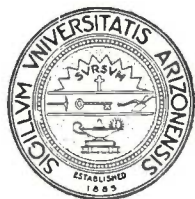
STATEMENT OF MAILING PRIVILEGE

The *University of Arizona Record* is issued six times a year. Published monthly during February, June, August, and October and semi-monthly during April.

Entered as second-class matter April 28, 1933, at the post office at Tucson, Arizona, under the Act of August 24, 1912.

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University of Arizona

UNIVERSITY EXTENSION DIVISION

APPLICATION FOR INSTRUCTION

- Name in full.....
(Please print)
Maiden name.....
(For married women)
- Present address.....
Town..... State.....
- Permanent address.....
- Place of birth..... Date.....
- Have you registered before at U.A.?.....
Summer School..... Matric. No.....
- For what degree are you a candidate?.....
- What is your major subject?.....
- Have you registered for correspondence or extension class work here before?..... Date.....
- Present occupation.....
- To what library have you access?.....

SCHOLASTIC RECORD

	Name of institution	Years attended	Grad. or degree
High school			
Normal			
College			
Other than above			

CORRESPONDENCE COURSES DESIRED

Title of courses	Course numbers	Units	Registration fees at \$5 per unit

I am enclosing (money order) (check) made out to the University Extension Division, University of Arizona, Tucson, Arizona, for \$..... covering registration fees.

Date..... Signed.....

(Duplicates of this blank will be sent on request)

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CORRESPONDENCE AND EXTENSION CLASS FACULTY

ADMINISTRATION

ATKINSON, ALFRED, D.Sc.....President of the University
 VOSSKUHLER, MAX P., M.S.....Director of University Extension Division
 FRENCH, DOROTHY C.....Secretary in University Extension Division

INSTRUCTION

ALTMAN, ELENORE.....Professor of Piano
 BROOKS, JOHN, Ph.D.....Professor of Spanish
 BROWN, ELMER J., Ph.D.....Professor of Business Administration
 BUFFA, JOSEPHINE, B.A.....Instructor in Spanish
 BURROWS, HERB. J., A.B.....Extension Instructor in Spanish
 CABLE, W. ARTHUR, M.A.....Professor of Speech
 CARRINGTON, HERBERT D., Ph.D.....Professor of German
 CLARSON, JAMES W., Jr., Ph.D.....Professor of Secondary Education
 CLINE, RUSSELL W., Ph.D.....Professor of Agricultural Education
 CONRAD, FREDERICK A., Ph.D.....Professor of Sociology
 DARROW, ROBERT A., Ph.D.....Associate Professor of Botany
 DAVIS, RICHARD N., M.S.....Professor of Dairy Husbandry
 DUFFY, YVONNE V., M.A.....Instructor in Spanish
 EWING, RUSSELL C., Ph.D.....Assistant Professor of History
 FEES, MARTHA K., B.S.....Instructor in Home Economics
 GAD, ELIZABETH H., M.A.....Instructor in Spanish
 GALLAGHER, JACQUELINE, B.S..Extension Instructor in Home Economics
 GRAESSER, ROY F., Ph.D.....Professor of Mathematics
 HERRICK, GEORGE F., M.B.A.....Professor of Business Administration
 HOUGHTON, NEAL D., Ph.D.....Professor of Political Science
 HOWARD, RUSSELL M., M.S.....Professor of Business Administration
 HUBBARD, HOWARD A., Ph.D.....Professor of History
 HUYCK, E. MARY, M.A.....Assistant Professor of Speech
 JENSEN, MILDRED R., M.A.....Assistant Professor of Home Economics
 JOSE, PAUL D., Ph.D.....Associate Professor of Astronomy
 KELLEY, VICTOR H., Ph.D.....Associate Professor of Education
 LARSON, EMIL L., Ph.D.....Professor of Education
 MATTINGLY, ALETHEA E., M.A.....Associate Professor of Speech
 MORGAN, FLORENCE H., M.A.....Assistant Professor of English
 MUIR, A. LAURENCE, Ph.D.....Associate Professor of English
 PARNELL, ROBERT C., LL.B.....Lecturer in Business Law
 PERCY, GARNET D., Ph.D.....Professor of Classics
 PHILLIPS, WALTER S., Ph.D.....Associate Professor of Botany
 RIESEN, EMIL R., M.A.....Professor of Philosophy
 ROBERTSON, FRANK D., M.A.....Instructor in Social Sciences
 ROY, FRANCIS A., Ph.D.....Associate Professor of French
 SCHLAPHOFF, DORETTA, M.S.....Instructor in Home Economics
 SCHMIDT, ANDREW B., A.M.....Professor of Economics
 SIMLEY, OLE A., Ph.D.....Professor of Psychology
 SMITH, HOWARD V., M.S.....Assoc. Prof. of Agricultural Chemistry
 STANLEY, ERNEST B., M.S.....Professor of Animal Husbandry
 STOYANOW, ALEXANDER A., Ph.D.....Professor of Geology
 SNYDER, HARTLEY D., M.A.....Professor of Music Education
 SUMMERS, RICHARD A., M.A.....Associate Professor of English
 TANNER, CLARA LEE, M.A.....Assistant Professor of Anthropology
 THOMPSON, ETHEL M., Ph.D.....Professor of Home Economics
 TOLSON, ANDY, M.A.....Extension Instructor in Political Science
 TREMBLAY, NAPOLEON J., Ph.D.....Professor of French
 TUCKER, WILLIAM J., Ph.D.....Professor of English
 UHRIG, LOUIS D., M.M.....Instructor in Music Theory
 WALKER, JOHN F., Ph.D.....Professor of Educational Psychology
 WALLRAFF, CHARLES F., Ph.D..Asst. Prof. of Philosophy and Psychology
 WILSON, GEORGE C., M.A.....Associate Professor of Music

UNIVERSITY EXTENSION DIVISION

PURPOSE AND AIMS

The purpose of the University Extension Division is to make available, as largely as possible, to every community and every individual in the state the advantages of general equipment, educational training, and specialized information represented on the University campus.

ORGANIZATION FOR SERVICE

CORRESPONDENCE COURSE BUREAU

For the convenience of those who are unable to attend the University, a well-rounded curriculum is offered at a nominal fee in selected subjects carrying college credit. Approximately one half of the requirements for the bachelor's degree may be met through correspondence or extension-class courses. Teacher recertification requirements may also be met through such courses.

DRAMATICS BUREAU

Advice and help are offered in organizing dramatic clubs, and in the solution of specific problems of any nature encountered in choosing and staging plays. A loan library of current plays, drama literature, and readings is available. All plays and books are lent for a period of 2 weeks. Borrowers pay the parcel post charges on all shipments of materials.

EXTENSION CLASS BUREAU

Local extension classes are organized under the direction of the University Extension Division in some of the larger communities of the state. A request from ten or more prospective students will usually be deemed sufficient for considering the organization of a class in a selected subject carrying regular college credit. A nominal registration fee is charged for all courses. Registration fees must be sufficient to pay instruction, travel, and all incidental expenses of conducting each class.

LECTURE AND LYCEUM BUREAU

Lectures can be secured for commencements or other special occasions. Speakers can also be provided for educational lectures or lecture courses. This service is free, but the organization receiving this service is asked to meet the lecturer's traveling and subsistence expenses. University talent, as represented in lectures, readings, music, dramatics, and related arts will be introduced to interested communities of the state as often as opportunity permits.

LIBRARY EXTENSION BUREAU

In co-operation with the University Library, books covering a wide range of subjects are available for loan, for a 4-week period, to any citizen of Arizona. While the Library is not in a position to plan informal programs of study, or to prepare reading lists, it does have on file a fairly extensive number of bibliographies and reading courses prepared by the American Library Association and the United States Office of Education. By the use of these lists, available on loan, it is possible to pursue consecutive and integrated reading, with no thought of college credit, in a variety of subject fields. There is no charge for this service other than the small cost of transportation, both ways, for borrowed materials. Requests for books should be addressed to the University Library direct.

PRESS BUREAU

Timely items of special interest concerning the University as well as authentic information and data are disseminated regularly to the press.

PUBLICATIONS BUREAU

All University catalogues, bulletins, and pamphlets are edited and published by the Bureau.

RADIO BUREAU

The extent and kind of radio work is based largely on principles advanced by the Federal Bureau of Radio Education and many universities experienced in broadcasting. Programs originating in the University studio are transmitted by commercial networks of the state as a public service.

VISUAL AIDS BUREAU

Moving pictures (16 mm. silent and sound-on-film), glass slides, and 35 mm. film slides are available to anyone equipped with suitable projectors upon payment of a nominal rental or service charge. Exhibitors pay the transportation charges, both ways, on all shipments of pictures.

INTRODUCTION

Although the direct or residence method of instruction is superior in some respects, the correspondence method presents a number of advantages which makes it particularly suited to the need of the serious student who is actively interested in the mastery of his studies.

Some of the more apparent advantages of correspondence instruction are: a correspondence course may be begun at any time and completed without interruption as rapidly or as slowly as desired; the student may concentrate upon one course at a time; he is unhampered by limitations of time in studying or reciting, or by the rate of a class through the course. Every part of each assignment is covered thoroughly, individual attention being given to each student, which insures the mastery of the course. The recitations take written form, giving training in logical thinking and arrangement of data, and developing the student's ability of expression. Writing the recitations helps the student to remember the significant points of the course, and the written assignments give it permanent form, easily accessible for future reference. Moreover, correspondence study, seriously undertaken, develops in a marked degree the student's initiative, self-reliance, accuracy, and above all his perseverance.

GENERAL INFORMATION

Correspondence courses do not offer a short cut; they are organized to coincide as closely as possible with the corresponding courses offered in residence at the University and are usually given by instructors having charge of similar residence courses. The chief merit of such courses is that they offer the isolated student, teacher, housewife, and businessman the opportunity of advantageously using spare hours at home in pursuing studies for college credit under University tutelage.

A correspondence course is presented in a number of assignments, ordinarily fifteen assignments for a 2-unit course and twenty for a 3-unit course. Approximately 6 hours of preparation are expected on each assignment, since an assignment represents approximately a week's work in residence.

Each assignment contains full directions for study, including references to the texts, necessary suggestions or assistance, and questions to be answered by the student.

Upon the satisfactory completion of a correspondence course, including a final examination, college credit will be granted. (A semester hour, referred to as a unit, of credit represents one class period per week for a semester of 17 weeks, 2 hours of preparation being expected for each recitation.)

Credit earned through correspondence in any of the courses listed in this bulletin may be presented in partial or complete fulfillment of the requirements for the granting or renewal of teaching certificates in Arizona. Correspondence credits in education courses which are starred are accepted in partial fulfillment of the requirements for the Administrative Certificate. Credit in the correspondence course, National and State Constitutions, is accepted by the State Board of Education in fulfillment of the law requiring each teacher to take this course in Arizona.

From time to time, as demand warrants, new correspondence courses will be added to the list offered. It is advisable for students to request the Extension Division to offer new courses especially

desired, since a real demand must be evinced for a course before it will be regularly offered in the correspondence schedule.

REGULATIONS

Correspondence courses may be begun at any time and may be completed as rapidly as the character of the work will permit. Students are allowed a maximum of 12 months from date of registration to complete the work for which they have registered. If work is not completed within the allotted time, a time extension may be gained through the payment of a nominal fee for each course.

No preliminary examinations or general prerequisites are required for registration in correspondence courses except in certain advanced courses. Credit will not be granted in those courses requiring prerequisites unless satisfactory evidence is presented that such prerequisites have been fully met. If the correspondence student should later matriculate at the University he must, of course, comply with the requirements for admission to residence courses.

Students may register for as many courses at a time as they feel they can pursue with profit; ordinarily, however, it is better to register for and complete one course at a time.

Correspondence courses may not be undertaken by a student while in regular attendance at an institution of learning without the knowledge and written consent of the authorities of such institution. A student taking residence work at the University of Arizona may not register for correspondence courses without approval of the dean of his college. Such permission must accompany the application for correspondence instruction before registration will be accepted.

Students who are under suspension from the University of Arizona for any reason whatever may register for correspondence courses only upon approval of the dean of the college in which they have previously registered.

A final examination must be passed satisfactorily in each course before credit is awarded; this examination may be taken either at the University or in the student's home town under conditions approved by the University Extension Division.

A maximum of 60 semester hours of credit earned through correspondence courses may be applied toward a bachelor's degree; but the Extension Division does not necessarily undertake to furnish that number of suitable units to each applicant.

Credit earned through correspondence is not acceptable as prelegal credit for admission to the College of Law. Correspondence courses will not be accepted for graduate credit.

The University Extension Division reserves the right to reject any registration if it feels that the best interests of the student or of the Extension Division will not be served through such registration.

REGISTRATION PROCEDURE

The prospective student should detach the "Application for Instruction" blank on the third page of this bulletin and give fully the information requested. (Additional application blanks may be secured at any time by writing to the University Extension Division.)

Desired correspondence courses should be clearly listed; the application should then be mailed to the University Extension Division with the required fee to cover registration.

If the registration is rejected, the fee will be returned and the student notified. If it is accepted, a receipt and the first few assign-

ments of the course will be sent to the student, remaining assignments being sent as needed.

In case of a change in the mailing address of a student, the Extension Division should be notified immediately so that assignments may be returned to the student promptly.

FEEES

Registration fees for correspondence courses are arranged on the basis of the number of units (semester hours) in a given course at a rate of \$5 per unit. Thus a 2-unit course requires a registration fee of \$10 while a 3-unit course requires \$15.

In case work is not completed within 12 months of the time of registration, a time extension of 12 months from date of registration expiration may be secured through the payment of a "time extension" fee of \$2 for each course. This time extension privilege may be exercised only within 6 months after date of expiration of the original registration.

A fee of \$2 will be charged for changing an enrollment from one course to another. Changes in enrollment may be made only within 6 months after date of original registration and provided no work has been done by the student on the original course. Should a student receive a failing grade on the final examination and be granted the privilege of taking a second, a fee of \$2 will be charged for the accommodation. The second examination must be taken before the expiration of the original registration.

Fees will ordinarily not be refunded because of a student's inability or unwillingness to pursue a course which he has begun. If no work has been done on a course and the student wishes to withdraw his registration, all fees will be refunded with the exception of a sum of \$2 per course to cover registration costs. Such refund fees will be made only if the registration is withdrawn within 6 months after date of original registration.

TEXTS AND SUPPLIES

Students are expected to purchase their own texts and supplies. These should be ordered directly from the Co-operative Book Store, University of Arizona, Tucson, and will be supplied through C.O.D. parcel post. Prices of texts and supplies quoted in this bulletin are F.O.B., Tucson; parcel post charges on all shipments of texts and supplies are to be paid by the students.

To secure uniformity in submitted assignments and to save postage, a light paper 8½ by 11 inches in size, especially suitable for correspondence manuscripts, has been adopted. A notebook accommodating this paper has also been adopted. Orders for this notebook and paper will be filled by the Co-operative Book Store through C.O.D. parcel post at the following prices: paper, ninety sheets, plain, 50c; notebook, canvas, \$1; notebook, luggage cloth, \$1.35.

Supplementary texts for parallel reading or reference in assignments may often be borrowed by writing directly to the University Library, University of Arizona, Tucson.

ANNOUNCEMENT OF COURSES

AGRICULTURE

- 1-C. Principles of Dairying. (1 unit) R. N. Davis
 Profitable dairying and dairy sanitation; properties of milk; operation of cream separators; testing milk; and butter making. (Eight assignments. Registration fee, \$5.)
 Text: *Elements of Dairying*, by Olson, The Macmillan Company (\$3.50).
- 107-C. Soil Physics. (3 units) H. V. Smith
 The mechanical composition of soils; physical characteristics of soil colloids; soil consistency; soil structure; soil water; soil air; soil temperature; physical properties of soil and tillage; physical properties of soils in relation to runoff and erosion. (Twenty assignments. Registration fee, \$15.)
 Text: *Soil Physics*, by L. D. Baver, John Wiley & Sons, Inc. (\$4).
- 114-C. Feeding Livestock. (3 units) E. B. Stanley
 Selection and use of feeds for special purposes; balanced rations; methods of feeding; and experimental work in feeding livestock. (Twenty assignments. Registration fee, \$15.)
 Text: *Feeds and Feeding* (Twentieth Edition), by Morrison, Morrison Publishing Co. (\$5).

ANTHROPOLOGY

- 1a-C. Anthropology I. (3 units) Clara Lee Tanner
 The organic nature of man, his origin, physical characters and race differences, and a preview of world archaeology. (Twenty assignments. Registration fee, \$15.)
 Text: *Anthropology*, by Kroeber, Harcourt Brace and Company (\$3.75).
- 1b-C. Anthropology II. (3 units) Clara Lee Tanner
 Living groups, their distribution, arts, sociology, religion, and language. Prerequisite, Anthropology 1a. (Twenty assignments. Registration fee, \$15.)
 Text: *Anthropology* (Trade Edition) by Goldenweiser, F. S. Crofts & Co. (\$5).
- 108-C. Egypt. (2 units) Clara Lee Tanner
 A cultural survey of the Nile Valley; geographical and geological histories; origin of the people and amalgamations. Study of social, religious, and political organizations and historical development of architecture. Brief survey of the place of Egypt in world history. (Fifteen assignments. Registration fee, \$10.)
 Text: *History of Egypt* (Second Edition), by Breasted, Charles Scribner's Sons (\$7.50).
- 115a-C. Archaeology of the Southwest I. (2 units) Clara Lee Tanner
 A detailed study of the pre-Spanish culture groups of the Southwest with special emphasis on chronology. (Fifteen assignments. Registration fee, \$10.)
 Text: *Southwestern Archaeology*, by McGregor, John Wiley & Sons, Inc. (\$5).

ASTRONOMY

- 1a-C. Descriptive Astronomy I. (2 units) P. D. Jose
 A nonmathematical cultural course. General perspective of modern views of the structure of the stellar universe and of the place of man and of the earth in it. The solar system; the earth and the other planets, meteors, and comets. (Fifteen assignments. Registration fee, \$10.)
 Text: *Astronomy* (Third Edition, 1938), by Baker, D. Van Nostrand & Company, Inc. (\$3.75).
- 1b-C. Descriptive Astronomy II. (2 units) P. D. Jose
 A nonmathematical cultural course. General perspective of modern views of the structure of the stellar universe and of the place of man and of the earth in it. The sidereal system: the sun and the stars, nebulae, the island universes. (Fifteen assignments. Registration fee, \$10.)

Text: *Astronomy* (Third Edition, 1938), by Baker, D. Van Nostrand & Company, Inc. (\$3.75).

BOTANY

- 1-C. General Botany. (2 units) W. S. Phillips
 An introductory study of general botany. Consideration will be given to the plant and its environment; the structure, function, and development of plant parts; and a brief survey of the plant kingdom. (Fifteen assignments. Registration fee, \$10.)
 Text: *Botany* (Third Edition), by Robbins and Rickett, D. Van Nostrand & Company, Inc. (\$3.75).
- 106-C. General Ecology. (2 units) R. A. Darrow
 A general study of plants in relation to their environment, with special reference to structure of vegetation, plant succession, and the physical factors governing the habitat. Prerequisite, Botany 1. (Fifteen assignments. Registration fee, \$10.)
 Text: *Plant Ecology* (Second Edition), by Weaver and Clements, McGraw-Hill Book Company, Inc. (\$5).

BUSINESS ADMINISTRATION

- 6-C. Introduction to Business. (3 units) A. B. Schmidt
 An introductory survey of the fundamental characteristics and functions of modern business. Main divisions of this course are business organization, finance, production, marketing, labor relationship, businessmen's associations, and business and government. A representative list of cases to illustrate modern methods and problems of American business is studied. (Twenty assignments. Registration fee, \$15.)
 Texts: *Introduction to Business* (1938 Edition), by Swayzee and Hicks, Farrar & Rinehart, Inc. (\$3.75); *Introduction to Business, A Case Book* (Second Edition), by Gilbert and Gragg, McGraw-Hill Book Company, Inc. (\$3).
- 11-C. Economic Geography. (3 units) G. F. Herrick
 Deals primarily with the production and distribution of important commodities; emphasis is also placed upon causal influences. Natural phenomena and political situations are given considerable stress. This course should be of value to all who have an interest in geography. (Twenty assignments. Registration fee, \$15.)
 Texts: *Economic Geography* (Fourth Edition), by Whitbeck and Finch, McGraw-Hill Book Company, Inc. (\$3.50); *Exercises in Economic Geography*, by Blanchard, McGraw-Hill Book Company, Inc. (\$1); *Ready Reference Atlas*, Rand McNally & Company (\$1).
- 31a-C. Principles of Accounting I. (3 units) R. M. Howard
 Fundamental principles of accounting, including the development of the theory of debits and credits applicable to both balance sheet and profit and loss accounting; journalizing and posting; use of special journals; account classification and the operation of controlling accounts; procedures involved in the handling and recording of purchases, sales, cash receipts, and disbursements; payroll tax accounting; negotiable instruments; periodic adjustment and closing entries; preparation of working sheets and financial statements; and departmental accounting. Adapted to the needs of adult beginners who have had no previous training or experience in bookkeeping or accounting. Also adapted to the needs of students who may have had some training or experience but who desire a thorough review of basic principles before proceeding with more advanced study. (Twenty assignments. Registration fee, \$15.)
 Texts: *Accounting Principles*, by J. Hugh Jackson, Charles R. Hadley Co. (\$4.80); *Workbook for Problems*, Charles R. Hadley Co. (\$1.10); *Retail Merchants Set*, Charles R. Hadley Co. (\$3.30).
- 31b-C. Principles of Accounting II. (3 units) R. M. Howard
 Principles of Accounting I or its equivalent is a prerequisite to this course. Full consideration is given to the organization and accounts peculiar to the corporation, including capital stock, surplus and bonded debt; manufacturing accounting principles, records, cost methods and statements; operation of the voucher system and expense distribution; consignments; installment sales; partnership, branch and tax account-

ing; the retail inventory method; and budgeting and executive control. (Twenty assignments. Registration fee, \$15.)

Texts: *Accounting Principles*, by J. Hugh Jackson, Charles R. Hadley Co. (\$4.80); *Workbook for Problems*, Charles R. Hadley Co. (\$1.10); *Manufacturing Set*, Charles R. Hadley Co. (\$4.80).

120a-C. Business Law I. (3 units) R. C. Parnell

A business course dealing with the fundamental principles of law of contracts and agency. (Twenty assignments. Registration fee, \$15.)

Texts: *Principles of Business Law* (Second Revised Edition), by Dillavou and Howard, Prentice-Hall, Inc. (\$4); *Textbook of Law and Business* (Second Edition), by Spencer, McGraw-Hill Book Co., Inc. (\$4).

120b-C. Business Law II. (3 units) R. C. Parnell

A continuation of Business Law I taking up topics of agency, negotiable instruments, sales, partnership, corporations, property rights, etc. (Twenty assignments. Registration fee, \$15.)

Texts: *Principles of Business Law* (Second Revised Edition), by Dillavou and Howard, Prentice-Hall, Inc. (\$4); *Textbook of Law and Business* (Second Edition), by Spencer, McGraw-Hill Book Co., Inc. (\$4).

CLASSICAL LITERATURE

1a-1C. Elementary Latin I. (2 units) G. D. Percy

An elementary course designed to cover the ground commonly covered in the first half of the first semester's college work. (Fifteen assignments. Registration fee, \$10.)

Text: *First Latin Lessons* (Revised), by Scott and Horn, Scott-Foresman and Company (\$1.20).

1a-2C. Elementary Latin II. (2 units) G. D. Percy

This course is a continuation of Elementary Latin I. Elementary Latin I and II cover the first semester's work in college. (Fifteen assignments. Registration fee, \$10.)

Text: *A Second Year Latin Reader* (Revised), by Sanford and Scott, Scott-Foresman and Company, (\$1.60).

1b-1C. Elementary Latin III. (2 units) G. D. Percy

Designed to cover the ground commonly covered in the first half of the second semester's college work. (Fifteen assignments. Registration fee, \$10.)

Text: *A Second Year Latin Reader* (Revised), by Sanford and Scott, Scott-Foresman and Company (\$1.60).

1b-2C. Elementary Latin IV. (2 units) G. D. Percy

This course is a continuation of Elementary Latin III. Elementary Latin III and IV cover the second semester's work in college. (Fifteen assignments. Registration fee, \$10.)

Text: *A Second Year Latin Reader* (Revised), by Sanford and Scott, Scott-Foresman and Company (\$1.60).

3a-1C. Latin Reading,
Elementary Course I. (2 units) G. D. Percy

The reading of selections from the writings of Cicero. Prerequisite, Classical Literature 1b or its equivalent. (Fifteen assignments. Registration fee, \$10.)

Text: *Orations of Cicero*, by Moore and Barss, Ginn and Company (\$2.40).

3a-2C. Latin Reading,
Elementary Course II. (2 units) G. D. Percy

This course is a continuation of Latin Reading, Elementary Course I. Latin Reading, Elementary Course I and II cover the first semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)

Text: *Orations of Cicero*, by Moore and Barss, Ginn and Company (\$2.40).

- 3b-1C. Latin Reading,
Elementary Course III. (2 units) G. D. Percy
The reading of selections from the writings of Virgil. (Fifteen assignments. Registration fee, \$10.)
Texts: *Virgil's Aeneid*, Books I-VI, by Fairclough and Brown, Benj. H. Sanborn & Co. (\$2); *Latin Grammar* (Paper Text Edition), by Elmer, The Macmillan Company (\$1.60).
- 3b-2C. Latin Reading,
Elementary Course IV. (2 units) G. D. Percy
This course is a continuation of Latin Reading, Elementary Course III. Latin Reading, Elementary Course III and IV cover the second semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)
Texts: *Virgil's Aeneid*, Books I-VI, by Fairclough and Brown, Benj. H. Sanborn & Co. (\$2); *Latin Grammar* (Paper Text Edition), by Elmer, The Macmillan Company (\$1.60).

ECONOMICS

- 1a-C. Introduction to Economics I. (3 units) E. J. Brown
The fundamental structure and principles which underlie economic and business life. The texts used have been revised and include a discussion of recently enacted legislation. Some of the topics considered are value and price, monopolies, distribution, rent, interest, profits, wages, money and banking, attempts at price stabilization, and recent monetary developments. (Twenty assignments. Registration fee, \$15.)
Texts: *Elementary Economics*, Vol. I (Fourth Edition), by Fairchild, Furniss and Buck, The Macmillan Company (\$2.50); *Questions and Problems in Economics* (Fourth Edition), by Haskell, The Macmillan Company (60c).
- 1b-C. Introduction to Economics II. (3 units) E. J. Brown
This is a continuation of Introduction to Economics I. Questions considered include taxation, industrial organization, the N.R.A., the business cycle, international trade and exchange, problems of labor, and plans of social reform such as profit sharing, single tax, co-operation, and socialism. (Twenty assignments. Registration fee, \$15.)
Texts: *Elementary Economics*, Vol. II (Fourth Edition), by Fairchild, Furniss and Buck, The Macmillan Company (\$2.50); *Questions and Problems in Economics* (Fourth Edition), by Haskell, The Macmillan Company (60c).

EDUCATION

- 101-C. Modern Education. (3 units) J. W. Clarson, Jr.
Characteristic features of public education in America; its organization, its administration, its policies, and some explanation of the forces that have affected its development. Planned to meet the needs of prospective teachers, of teachers in service seeking professional advancement and a renewed acquaintance with modern education, and of non-teachers who want a general overview of the educational system. (Twenty assignments. Registration fee, \$15.)
Text: *The American Educational System*, by Russell and Judd, Houghton Mifflin Company (\$2.50).
- 106-C.* Comparative Education. (3 units) IV J. W. Clarson, Jr.
Comparative study of the organization, administration, scope, curricula, and purposes of the principal national school systems, interpreted in the light of national character and national purpose. Six leading nations will be considered—England, France, Germany, Italy, Russia, and the United States. (Twenty assignments. Registration fee, \$15.)
Text: *Comparative Education*, by Kandel, Houghton Mifflin Company (\$4.50).

*Starred courses may be applied toward the requirements for the Administrative Certificate.

Roman numerals after the names of the courses indicate the groups in which these courses belong respectively.

108-C.* Rural Education. (3 units) V J. W. Clarson, Jr.

This course offers help in understanding and solving the problems of rural education. Intended primarily for rural teachers, it should prove valuable also to rural principals and supervisors, county superintendents, and all others interested in the promotion of effective rural education. This course includes a basic study of those factors that have made rural life and education what they are today. On this as a basis the course points out how the teacher and the school can best meet the needs of present rural communities. The course throughout is concrete and practical. (Twenty assignments. Registration fee, \$15.)

Texts: *The Rural Community and Its Schools*, by Lewis, American Book Company (\$2.50); *Everyday Problems of the Country Teacher* (Revised Edition), by Lowth, The Macmillan Company (\$2.25); *Arizona School Law* (supplied by the State Department of Education, Phoenix, Arizona).

109-C.* Vocational Education. (2 units) V R. W. Cline

This course offers assistance in the understanding of the theory and practices of vocational education. Problems of vocations are considered from the standpoint of the individual, of the group of individuals organized for a particular purpose, and of economic society as a whole. Consideration is given to purpose, content, methods of teaching, and school organization, with a view to proposing a unified program of vocational education. (Fifteen assignments. Registration fee, \$10.)

Texts: *Education and Vocations*, by Eaton, John Wiley & Sons, Inc. (\$2.50); *Vocational Education in a Democracy*, by Prosser and Allen, Century Co. (\$3).

110-C.* Elementary Philosophy of Education. (3 units) IV J. W. Clarson, Jr.

Basic concepts of the educative process, purpose and plan, the role of conscious and unconscious education in the evolution of society, the background of teaching. (Twenty assignments. Registration fee, \$15.)

Texts: *Basic Principles in Education*, by Morrison, Houghton Mifflin Company (\$2.80); *Principles of Modern Education*, by Thomas and Lang, Houghton Mifflin Company (\$2.50).

111-C.* History of Education. (3 units) IV E. L. Larson

Educational movements and leaders of special significance in the development of present educational systems and theories. Greek and Roman education, early and medieval Christian institutions, the rise and development of universities, the Renaissance, the Reformation, humanism, and realism will be considered from the standpoint of their educational effects. The stages in the development of national systems of education in Germany, France, England, and America will receive definite treatment. Special attention will be directed toward the growth of the public school system in the United States. The work of Comenius, Rousseau, Pestalozzi, Herbart, and Froebel with their permanent educational contributions will be studied. Present tendencies and expansions will also be considered. (Twenty assignments. Registration fee, \$15.)

Text: *The History of Education*, by Cubberley, Houghton Mifflin Company, (\$3.90).

112-C.* History of Education in the United States. (3 units) IV V. H. Kelley

A course dealing with the development of our educational system from colonial foundations to the present. The aims of the course will be to bring about increased understanding and appreciation of the national system through authentic information as to its origin and the principles involved. (Twenty assignments. Registration fee, \$15.)

Text: *Public Education in the United States* (1934 Revised Edition), by Cubberley, Houghton Mifflin Company (\$3.50).

121-C.* The Elementary School Curriculum. (3 units) III E. L. Larson

The purpose and curriculum of the elementary school. Accepted and proposed aims, analysis, and evaluation of objective studies, and proposals concerning the elementary-school course of study. Rating scales for elementary-school courses and the scoring of several courses by means of these scales. A defensible curriculum for the elementary

school will be proposed and considered. (Twenty assignments. Registration fee, \$15.)

Text: *Modern Methods and the Elementary Curriculum*. (Revised Edition), by Phillips, The Century Co. (\$2.50).

131-C.* The High School. (3 units) III J. W. Clarson, Jr.

For all preparing for teaching or for administrative work in secondary schools. The object of the course is to provide a thorough understanding of the high school as an institution. The purpose and development of the high school and a brief comparison with European secondary schools; the high-school student body; the relationship of high school to the elementary school and to the college; the curriculum; the outlook for secondary education. (Twenty assignments. Registration fee, \$15.)

Text: *Modern Secondary Education*, by Douglass, Houghton Mifflin Company (\$3.50).

150-C. Mental Hygiene. (2 units) J. F. Walker

A study of the conflicts and adjustments made necessary by the increasing complexity of the social life of American communities. With the modern changes in family life, produced largely by industrial changes, an increasing responsibility is placed upon teachers as guides in the mental adjustment of the children in their care. A study of how to meet this responsibility is the object of this course. (Fifteen assignments. Registration fee, \$10.)

Texts: *Educating for Adjustment*, by Rivlin, D. Appleton-Century Company, Inc. (\$2.25); *Keeping a Sound Mind*, by Morgan, the Macmillan Company (\$2.25).

151-C. Educational Psychology. (3 units) J. F. Walker

How to bring about most certainly and economically the changes in the behavior of the individual which seem to be desirable in enabling him to function well in the American social, economic, and political system. The course involves the recognition of general principles of learning and their specific application together with a brief preview of measurement and guidance. Prerequisite, Psychology Ia or its equivalent. (Twenty assignments. Registration fee, \$15.)

Text: *Educational Psychology*, by Gates, Jersild, McConnell, and Challman, The Macmillan Company (\$3).

154-C.* Statistical Methods
in Education. (3 units) II J. F. Walker

Elementary methods of dealing quantitatively with school data and data resulting from experimental investigations. (Twenty assignments. Registration fee, \$15.)

Text: *Statistics in Psychology and Education* (Revised Edition), by Garrett, Longmans, Green & Co. (\$3.50).

157-C.* Educational Tests
and Measurements. (3 units) II J. F. Walker

The principles underlying the construction, use, and interpretation of good examinations will be studied. Some practice in making and in taking objective tests will be a feature of the course and a survey of the standardized tests now available in the particular teaching subject of the student will be required. (Twenty assignments. Registration fee, \$15.)

Text: *Measurement in Today's Schools*, by Ross, Prentice-Hall, Inc. (\$3.25).

160-C.* Public School
Administration. (3 units) I J. W. Clarson, Jr.

Principles of school administration applied to the problems arising in villages, towns, and small cities. Intended primarily for principals, supervisors, and superintendents, but of value also to teachers. Topics include organization, general and specific administrative duties, supervision, and community relationships. (Twenty assignments. Registration fee, \$15.)

Text: *Fundamentals of Public School Administration* (Revised Edition, 1941), by Reeder, The Macmillan Company (\$3.75).

ENGLISH

- X-C. English Composition. (0 units)†** Florence H. Morgan
 A corrective course in grammar, spelling, punctuation, sentence and paragraph structure, designed for those who are deficient in the mechanics of English composition and therefore not qualified to enter English 1a, or for others who wish to learn the fundamentals of written English. Freshmen who enter the University with a passing grade in English X-C may enter English 1a without taking the English Placement Examination given during Freshman Week. (Twenty assignments. Registration fee, \$15.)
 Texts: *Webster's Collegiate Dictionary*, G. & C. Merriam Co. (\$3.50) or *The College Standard Dictionary*, Funk & Wagnalls Company, Publishers (\$3.50); *Century Collegiate Handbook* (1939 Revised Edition), by Greever and Jones, D. Appleton-Century Company, Inc. (\$1.50); *Practice Leaves in the Rudiments of English*, by Jones, D. Appleton-Century Company, Inc. (75c).
- 6-C. Modern Grammar and Modern Usage. (3 units)** Florence H. Morgan
 Presupposes a good elementary knowledge of the parts of speech and sentence analysis. Varied functions of words, phrases, and clauses in sentences. Stress is placed upon points of grammar likely to give trouble. (Twenty assignments. Registration fee, \$15.)
 Texts: *Syllabus for English Six*, Co-operative Book Store, University of Arizona (75c); *Webster's Collegiate Dictionary* (Fifth Edition), G. & C. Merriam Co. (\$3.50) or any other good collegiate dictionary.
- 24b-C. American Literature II. (3 units)** A. L. Muir
 A survey of American poetry, prose, and fiction from Walt Whitman to Willa Cather. (Twenty assignments. Registration fee, \$15.)
 Texts: *American Poetry and Prose* (Revised and Enlarged), Part 2, by Foerster, Houghton Mifflin Company (\$2.40); *History of American Letters*, by Taylor, American Book Company (\$3.50).
- 104a-C. Story Writing I. (3 units)** R. G. Summers
 Elementary study of theory, with analysis of typical stories and practice in writing stories. (Twenty assignments. Registration fee, \$15.)
 Text: *Reading the Short Story*, by Shaw and Bement, Harper & Brothers (\$1.50).
- 126a-C. Survey of English Literature I. (3 units)** W. J. Tucker
 An outline course, tracing the main tendencies in English literature from the beginnings to the close of the eighteenth century. (Twenty assignments. Registration fee, \$15.)
 Texts: *A Book of English Literature*, Vol. I (Fourth Edition), by Snyder and Martin, The Macmillan Company (\$3.25); *History of English Literature* (Revised Edition), by Neilson and Thorndike, The Macmillan Company (\$2).
- 126b-C. Survey of English Literature II. (3 units)** W. J. Tucker
 A continuation of Survey of English Literature I, carrying the study to the present day. (Twenty assignments. Registration fee, \$15.)
 Texts: *A Book of English Literature*, Vol. II (Fourth Edition), by Snyder and Martin, The Macmillan Company (\$3.25); *History of English Literature* (Revised Edition), by Neilson and Thorndike, The Macmillan Company (\$2).
- 131a-C. Shakespeare I. (3 units)** W. J. Tucker
 A study of eight Shakespearean plays—two comedies, two histories, and four tragedies—and of the facts of Shakespeare's life, the age in which he lived, and the theatrical and literary history of his time. Prerequisites, English 126a and 126b. (Twenty assignments. Registration fee, \$15.)
 Texts: *The Facts About Shakespeare* (Revised Edition), by Neilson and Thorndike, The Macmillan Company (\$1.90); *Shakespeare*, by Parrott, Charles Scribner's Sons (\$4).

†English X is of subcollegiate grade and hence is not evaluated in terms of units that may be counted toward a degree.

- 134-C. Modern Drama. (3 units) W. J. Tucker
 The study of twenty representative dramas from Ibsen to Barrie, with more intensive study of three dramas that are typical of the three periods prevailing during the last 75 years. (Twenty assignments. Registration fee, \$15.)
 Texts: *Twenty-Five Modern Plays* (Text Edition), by Tucker, Harper & Brothers (\$3); *A Doll's House*, by Ibsen, Walter H. Baker Co. (50c); *Candida*, by Shaw, Dodd, Mead and Company (\$1.25).

FRENCH

- 1a-1C. Elementary French I. (2 units) N. J. Tremblay
 A course for beginners in which grammar, composition, and reading are emphasized. Elementary French may be undertaken only when satisfactory arrangements for acquiring pronunciation can be made by the student, such as private instruction or residence with French-speaking people. An oral examination may be required upon completion of this course before credit is allowed. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Brief French Grammar*, by Fraser, Squair and Carnahan, D. C. Heath and Company (\$1.64); *Petits Contes de France* (1929 Enlarged Edition), by Méras and Roth, American Book Company (\$1).
- 1a-2C. Elementary French II. (2 units) N. J. Tremblay
 This course is a continuation of Elementary French I. Elementary French I and II cover the first semester's work in college. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Brief French Grammar*, by Fraser, Squair and Carnahan, D. C. Heath and Company (\$1.64); *Petits Contes de France* (1929 Enlarged Edition), by Méras and Roth, American Book Company (\$1).
- 1b-1C. Elementary French III. (2 units) N. J. Tremblay
 This course covers the ground ordinarily covered in the first half of the second semester's college work. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Brief French Grammar*, by Fraser, Squair and Carnahan, D. C. Heath and Company (\$1.64); *Monte Cristo* (Spiers Edition), by Dumas, D. C. Heath and Company (88c).
- 1b-2C. Elementary French IV. (2 units) N. J. Tremblay
 This course is a continuation of Elementary French III. Elementary French III and IV cover the second semester's work in college. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Brief French Grammar*, by Fraser, Squair and Carnahan, D. C. Heath and Company (\$1.64); *Monte Cristo* (Spiers Edition), by Dumas, D. C. Heath and Company (88c).
- 3a-1C. Advanced French I. (2 units) N. J. Tremblay
 This course undertakes the study of grammar, composition, and reading of Mérimée and Victor Hugo. Opportunity for practice in pronunciation and conversation must be available to the student. Prerequisites, French Ia and Ib, or their equivalent. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Alternate French Review Grammar and Composition Book*, by Carnahan, D. C. Heath and Company (\$1.36); *Carmen et Autres Nouvelles* (Blondheim Edition), by Mérimée, D. C. Heath and Company (\$1.12).
- 3a-2C. Advanced French II. (2 units) N. J. Tremblay
 This course is a continuation of Advanced French I. Advanced French I and II cover the first semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Alternate French Review Grammar and Composition Book*, by Carnahan, D. C. Heath and Company (\$1.36); *Les Misérables* (edited by Campbell), by Hugo, D. C. Heath and Company (96c).
- 3b-1C. Advanced French III. (2 units) N. J. Tremblay
 This course covers the ground ordinarily covered in the first half of the second semester of second year college work. It undertakes a study of grammar, composition, and reading of Balzac and Loti. (Fifteen assignments. Registration fee, \$10.)

Texts: *Favorite French Stories*, by Parker, Allyn & Bacon (80c); *Eugénie Grandet* (Spiers Edition), by Balzac, D. C. Heath and Company (\$1.20).

- 3b-2C. Advanced French IV. (2 units) N. J. Tremblay
This course is a continuation of Advanced French III. Advanced French III and IV cover the second semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)
Texts: *Favorite French Stories*, by Parker, Allyn & Bacon (80c); *Pêcheur d'Islande* (Super Edition), by Loti, D. C. Heath and Company (96c).

GEOLOGY

- 1a-C. General Geology I (Physical). (3 units) A. A. Stoyanow
The origin and structural arrangements of the materials of the earth and the agencies and processes producing changes in them. (Twenty assignments. Registration fee, \$15.)
Text: *A Textbook of Geology, Part I* (Second Edition), by Longwell, Knopf, and Flint, John Wiley & Sons (\$3.75).
- 1b-C. General Geology II (Historical). (3 units) A. A. Stoyanow
A consideration of the history of the earth and its animals and plants as recorded in the rocks and their structures. (Twenty assignments. Registration fee, \$15.)
Text: *A Textbook of Geology, Part II* (Fourth Edition), by Schuchert and Dunbar, John Wiley & Sons (\$4).

GERMAN

- 1a-1C. First-Year German I. (2 units) H. D. Carrington
Enables the student to read simple German intelligently. Word study, grammar, and composition are emphasized. Elementary German may be undertaken only when satisfactory arrangements for acquiring pronunciation can be made by the student, such as private instruction or residence with German-speaking people. An oral examination may be required upon completion of the course before credit is allowed. (Fifteen assignments. Registration fee, \$10.)
Text: *First Book in German*, by Chiles and Wiehr, Ginn and Company (\$2.10).
- 1a-2C. First-Year German II. (2 units) H. D. Carrington
This course is a continuation of First-Year German I. First-Year German I and II cover the first semester's work in college. (Fifteen assignments. Registration fee, \$10.)
Text: *First Book in German*, by Chiles and Wiehr, Ginn and Company (\$2.10).
- 1b-1C. First-Year German III. (2 units) H. D. Carrington
This course covers the ground ordinarily covered during the first half of the second semester's college work. (Fifteen assignments. Registration fee, \$10.)
Text: *First Book in German*, by Chiles and Wiehr, Ginn and Company (\$2.10).
- 1b-2C. First-Year German IV. (2 units) H. D. Carrington
This course is a continuation of First-Year German III. First-Year German III and IV cover the second semester's work in college. (Fifteen assignments. Registration fee, \$10.)
Texts: *First Book in German*, by Chiles and Wiehr, Ginn and Company (\$2.10); *Krümel als Detektiv*, by Matthews, Oxford University Press (30c).
- 3a-1C. Second-Year German I. (2 units) H. D. Carrington
A part of the course is devoted to composition exercises to fix in mind grammatical forms and principles, but the main objective is that the student acquire a larger and more accurate vocabulary and learn something of life in modern Germany. (Fifteen assignments. Registration fee, \$10.)
Texts: *Hannelore erlebt die Grosstadt*, by Hohrath, F. S. Crofts & Co. (\$1.35); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Company (\$1.24).

- 3a-2C. Second-Year German II. (2 units) H. D. Carrington
This course is a continuation of Second-Year German I. Second-Year German I and II cover the first semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)
Texts: *Hannelore erlebt die Grosstadt*, by Hohrath, F. S. Crofts & Co. (\$1.35); *Still und Bewegt*, by Diamond and Rosenfeld, Henry Holt and Company, Inc. (\$1.60); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Company (\$1.24).
- 3b-1C. Second-Year German III. (2 units) H. D. Carrington
This course covers the ground ordinarily covered in the first half of the second semester of second year college work. (Fifteen assignments. Registration fee, \$10.)
Texts: *Still und Bewegt*, by Diamond and Rosenfeld, Henry Holt and Company, Inc. (\$1.60); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Company (\$1.24).
- 3b-2C. Second-Year German IV. (2 units) H. D. Carrington
This course is a continuation of Second-Year German III. Second-Year German III and IV cover the second semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)
Texts: *Still und Bewegt*, by Diamond and Rosenfeld, Henry Holt and Company, Inc. (\$1.60); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Company (\$1.24).
- 108a-C. Scientific German I. (2 units) H. D. Carrington
A translation course for the student of science who has mastered the elements of German grammar and has read texts of moderate difficulty. It aims to assist the student in acquiring a good vocabulary and in mastering constructions which are peculiar to this type of prose. Fifteen assignments. Registration fee, \$10.
Text: To be chosen from student's special field of interest with approval of instructor.

HISTORY

- 2a-C. American History. (3 units) R. C. Ewing
The development of the American people, treating briefly of the colonial experiences, of the Revolution, of the formation of the constitution, of national expansion, and growth of sectionalism to the compromise of 1850. (Twenty assignments. Registration fee, \$15.)
Texts: *Short History of the United States, 1492-1938* (Third Edition), by Bassett, The Macmillan Company (\$4.25); *Documentary Source Book of American History, 1606-1926* (Third Edition), by MacDonald, The Macmillan Company (\$3.25).
- 2b-C. American History II. (3 units) R. C. Ewing
A continuation of American History I, treating of the reopening of the slavery question and secession, of the Civil War and reconstruction, of industrial expansion of the United States as a world power, of the World War, the problems of peace. (Twenty assignments. Registration fee, \$15.)
Texts: *Short History of the United States, 1492-1938* (Third Edition), by Bassett, The Macmillan Company (\$4.25); *Documentary Source Book of American History, 1606-1926* (Third Edition), by MacDonald, The Macmillan Company (\$3.25); *The Rise of American Civilization* (One Volume Revised Edition), by Beard, The Macmillan Company (\$5).
- 11-C. Development of the English Nation. (3 units) H. A. Hubbard
From the earliest times to the end of the Tudor period. The influence of church and continental relations; development of English social and political institutions. Intended to give students a clear idea of the constitution as developed to the close of the period. (Twenty assignments. Registration fee, \$15.)
Texts: *Select Documents of English Constitutional History*, by Adams and Stephens, The Macmillan Company (\$3.50); *History of England and Greater Britain*, by Cross, the Macmillan Company (\$5).
- 12-C. Development of English
Party Government. (3 units) H. A. Hubbard
Beginning with the close of the Tudor period, the events and legislation causing and directing the growth of English political parties. The prerogatives of the Crown, the development of the cabinet system, elections, methods of legislation, and the reform bills of the nineteenth century. (Twenty assignments. Registration fee, \$15.)

Texts: *Select Documents of English Constitutional History*, by Adams and Stephens, The Macmillan Company (\$3.50); *History of England and Greater Britain*, by Cross, The Macmillan Company (\$5).

- 109-C. Greek History. (3 units) H. A. Hubbard
Greece to the death of Alexander. The development of the political, social, and economic life of the Greek people. (Twenty assignments. Registration fee, \$15.)
Texts: *Hellenic History*, by Botsford, The Macmillan Company (\$4.50); *A Source Book of Ancient History*, by Botsford, The Macmillan Company (\$2.40).
- 110-C. Roman History. (3 units) H. A. Hubbard
To the fall of the Empire. The organization of the Republic and the Empire; the social and economic development of the people. The relation of Rome to the Mediterranean world. (Twenty assignments. Registration fee, \$15.)
Texts: *A History of Rome to 565 A.D.* (Revised Edition), by Boak, The Macmillan Company (\$4); *A History of Rome*, by Frank, Henry Holt and Company, Inc. (\$3.85).
- 121-C. The Latin-American Colonies. (2 units) R. C. Ewing
Survey of Spanish institutions and culture in discovery, exploitation, and settlement of Latin America; social organization and economic conditions. (Fifteen assignments. Registration fee, \$10.)
Texts: *Colonial Hispanic America* (College Edition), by Chapman, The Macmillan Company (\$2.60); *Spanish Borderlands* (Textbook Edition), by Bolton, Yale University Press (\$1.50).
- 122-C. The Latin-American Republics. (2 units) R. C. Ewing
The struggle for independence; progress toward stability, prosperity, and international recognition; geography and resources; social, political, and financial situation. (Fifteen assignments. Registration fee, \$10.)
Texts: *Hispanic Nations of the New World* (Textbook Edition), by Shepherd, Yale University Press (\$1.80); *History of Latin American Nations* (Third Edition), by Robertson, D. Appleton-Century Company, Inc. (\$4).
- 137-C. Studies in the Far East. (3 units) H. A. Hubbard
Survey of the history of China and Japan in an attempt to understand the background of the two peoples; the gradual penetration of the West into the Orient; the battle for concessions; and the development of imperialism. Open to no student below junior standing. (Twenty assignments. Registration fee, \$15.)
Texts: *A History of the Far East in Modern Times* (Revised Edition), by Vinacke, F. S. Crofts & Co. (\$5); *A History of the Far East*, by Steiger, Ginn and Company (\$5).

HOME ECONOMICS

- 2-C. Introduction to Nutrition. (2 units) Ethel M. Thompson
Selection of food adequate for health. The requirements of the body for energy, protein, minerals, and vitamins, and food sources of each are discussed, and the methods by which these requirements are determined are explained. (Fifteen assignments. Registration fee, \$10.)
Text: *Nutrition and Physical Fitness* (Fourth Edition), by Bogert, W. B. Saunders Company (\$3).
- 45-C. Costume Selection. (2 units) Mildred R. Jensen
The principles of color, harmony, balance, proportion, and line as applied to dress. Individual requirements in color and line are particularly stressed. Also the major textile fibers, fabrics made from them, and tests for quality and identification. (Fifteen assignments. Registration fee, \$10.)
Text: *Color and Line in Dress* (Revised Edition, 1938), by Hempstead, Prentice-Hall, Inc. (\$3).

- 115a-C. Home Furnishings I. (3 units) Mildred R. Jensen
 Art principles applied to interiors; the choice of wall finishes, floor coverings, furniture, draperies, and accessories; period styles; the arrangement of furniture, the complete decoration of various rooms. (Twenty assignments. Registration fee, \$15.)
 Text: *Decorating the Home*, by Lewis, The Macmillan Company (\$5.50).

MATHEMATICS

- 20-C. College Algebra. (3 units) R. F. Graesser
 This is a standard treatment of college algebra, and thus includes all topics commonly studied in that course. It is equivalent to the course in College Algebra required in all engineering courses at the University of Arizona. Prerequisite, 1½ entrance credits in algebra. (Twenty assignments. Registration fee, \$15.)
 Text: *College Algebra* (Revised Edition), by Rosenbach and Whitman, Ginn and Company (\$2.60).
- 24-C. Plane Trigonometry. (2 units) R. F. Graesser
 A thorough course in analytic and numerical trigonometry with applications. This course is the equivalent of the course in trigonometry prescribed for all engineering courses at the University of Arizona. Trigonometry may precede College Algebra, but it is materially easier for those who have taken their algebra first. Prerequisite, 1½ entrance credits in algebra and 1 entrance credit in geometry. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Plane and Spherical Trigonometry with Tables*, by Rider, The Macmillan Company (\$2.50); *Logarithmic and Trigonometric Tables* (Revised Edition), The Macmillan Company (\$1.50).
- 25-1C. Analytic Geometry I. (2 units) R. F. Graesser
 For correspondence work, Analytic Geometry is divided into two courses, the two together including all topics customarily taught in this subject. These two courses are the equivalent of the work in Analytic Geometry prescribed for all engineering courses at the University of Arizona. Prerequisites, 1 entrance credit in geometry, Mathematics 20 and 24 or their equivalents.
 Analytic Geometry I includes basic formulas, the straight line, the curve and the equation, the circle, the conic sections, and the general equation of second degree. (Fifteen assignments. Registration fee, \$10.)
 Text: *Analytic Geometry* (Alternate Edition), by Wilson and Tracy, D. C. Heath and Company (\$2.20).
- 25-2C. Analytic Geometry II. (2 units) R. F. Graesser
 This course is the continuation of Analytic Geometry I. It includes polar co-ordinates, higher plane curves, tangents and normals, empirical equations, and solid analytic geometry. (Fifteen assignments. Registration fee, \$10.)
 Text: *Analytic Geometry* (Alternate Edition), by Wilson and Tracy, D. C. Heath and Company (\$2.20).
- 69a-C. Mathematics of Commerce I. (2 units) R. F. Graesser
 Review of elementary algebra, logarithmic computation, simple and compound interest with their applications. Prerequisite, 1 entrance credit in algebra. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Mathematics of Finance* (Second Edition), by Simpson, Pirenian, and Crenshaw, Prentice-Hall, Inc. (\$3.75); *Glover's Tables*, George Wahr Publishing Company (\$2.50).
- 69b-C. Mathematics of Commerce II. (2 units) R. F. Graesser
 Annuities certain with applications. This course is a continuation of Mathematics of Commerce I. Prerequisite, Mathematics 69a or its equivalent. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Mathematics of Finance* (Second Edition), by Simpson, Pirenian, and Crenshaw, Prentice-Hall, Inc. (\$3.75); *Glover's Tables*, George Wahr Publishing Company (\$2.50).
- 95a-1C. Calculus I. (2 units) R. F. Graesser
 For correspondence work, the calculus is divided into four courses; together, these four courses constitute a standard college course in the

subject. (These four courses satisfy the calculus requirements of all engineering courses at the University of Arizona.)

Calculus I includes preliminary definitions, limits, differentiation and integration of powers, and the differentiation of algebraic functions, together with applications to physics and geometry. Prerequisite, Mathematics 25 or its equivalent. (Fifteen assignments. Registration fee, \$10.)

Text: *Calculus*, by Nelson, Folley, and Borgman, D. C. Heath and Company (\$2.75).

95a-2C. Calculus II. (2 units) R. F. Graesser

This course includes the differentiation of transcendental functions, parametric representation, polar co-ordinates, indeterminate forms, curve tracing and other applications, and simple integration. (Persons continuing from Mathematics 94a should begin with this course but will receive only 1 unit of credit because of overlapping subject matter.) Prerequisite, Calculus I or its equivalent. (Fifteen assignments. Registration fee, \$10.)

Text: *Calculus*, by Nelson, Folley, and Borgman, D. C. Heath and Company (\$2.75).

95b-1C. Calculus III. (2 units) R. F. Graesser

This course completes the study of formal integration, continues with applications of integration to geometry and mechanics, and concludes with infinite series. Prerequisite, Mathematics 95a. (Fifteen assignments. Registration fee, \$10.)

Text: *Calculus*, by Nelson, Folley, and Borgman, D. C. Heath and Company (\$2.75).

95b-2C. Calculus IV. (2 units) R. F. Graesser

Hyperbolic functions, partial differentiation, multiple integrals, and elementary differential equations. Prerequisite, Calculus III. (Fifteen assignments. Registration fee, \$10.)

Text: *Calculus*, by Nelson, Folley, and Borgman, D. C. Heath and Company (\$2.75).

MUSIC

2-C. Fundamentals of Music. (1 unit) L. D. Uhrig

This course is designed for those with little or no knowledge of music theory. The following material is covered: staves, clefs, time rhythm, intervals, scales, triads and simple chord connection. Not for credit for music majors. (Seven assignments. Registration fee, \$5.)

Texts: *Musical Theory*, Books I and II, by Arthur Olaf Andersen, H. T. FitzSimons (75c each).

102a-C. Survey of Musical Literature I. (2 units) L. D. Uhrig

This course includes a brief study of primitive music followed by a development of the Gregorian Chant, polyphony, meter and rhythm, harmony, the opera, instruments and the development of musical form up to the death of Bach in 1750. The development of music is co-related with parallel developments in the other arts. (Fifteen assignments. Registration fee, \$10.)

Text: *A History of Music*, by Finney, Harcourt, Brace and Company (\$3).

102b-C. Survey of Musical Literature II. (2 units) L. D. Uhrig

Haydn, Mozart, and Beethoven and the rise of the symphony. Romanticism and its effect on the symphony and the opera. Program music, the music drama, nationalism, impressionism, and other forms of modernisms. American music. (Fifteen assignments. Registration fee, \$10.)

Text: *A History of Music*, by Finney, Harcourt, Brace and Company (\$3).

PHILOSOPHY

11-C. Introduction to Philosophy. (3 units) E. R. Riesen

Designed to meet the needs of the general student who desires guidance in his search for the meaning of nature and of human life. Essays and discourses which acquaint the student with outstanding philosophical personalities and with philosophies of life as well as

with metaphysical systems are emphasized. (Twenty assignments. Registration fee, \$15.)

Texts: *Plato: Selections*, by Demos, Charles Scribner's Sons (\$1.75); *Selected Papers on Philosophy*, by W. James, E. P. Dutton & Co., Inc. (95c); *Introduction to Philosophy* (Revised Edition), by Patrick, Houghton Mifflin Company (\$2.75).

101a-C. History of Philosophy I

(Ancient and Medieval). (3 units) C. F. Wallraff

European philosophies as the foundation of modern philosophical thinking. Materialism and idealism of Greece; the ethical and religious thought of pagan Rome and of Rome as the center of Christian speculation in Europe; the philosophies preceding modern science. (Twenty assignments. Registration fee, \$15.)

Texts: *A Critical History of Greek Philosophy*, by Stace, the Macmillan Company (\$2); *Source Book in Ancient Philosophy* (New Edition), by Bakewell, Charles Scribner's Sons (\$2.20); *The Searching Mind of Greece* (Text Edition), by Warbecke, F. S. Crofts & Co. (\$3.91).

101b-C. History of Philosophy II

(Modern). (3 units) C. F. Wallraff

European thought from the Renaissance to the present time. Rationalism, empiricism, sensationalism, idealism, pessimism, pragmatism, and neorealism. (Twenty assignments. Registration fee, \$15.)

Texts: *A History of Philosophy*, Vol. II, 1945, by Fuller, Henry Holt and Company (\$2.90); *The Making of the Modern Mind* (Revised Edition), by Randall, Houghton Mifflin Company (\$3.75).

POLITICAL SCIENCE

51-C. National Government

of the United States. (3 units) N. D. Houghton

Origin and development of the Constitution of the United States; organization, structure, and working of the national government, and its efforts to deal with great social economic problems in a changing world. (Twenty assignments. Registration fee, \$15.)

Texts: *Federal Government of the United States*, by West, Prentice-Hall, Inc. (\$3.25); *Economic Interpretation of the Constitution of the United States*, by Beard, The Macmillan Company (\$2.75); *Documents and Readings in American Government* (Revised), by Mathews and Berdahl, The Macmillan Company (\$4).

100-C. National and State Constitutions. (3 units) N. D. Houghton

Designed to meet the state requirements for a teacher's certificate, a rapid survey of the government of the United States, both federal and state, including a survey of the Constitution of Arizona. (Twenty assignments. Registration fee, \$15.)

Texts: *Economic Interpretation of the Constitution of the United States*, by Beard, The Macmillan Company (\$2.75); *Introduction to American Government* (8th Edition Complete), by Ogg and Ray, D. Appleton-Century Company, Inc. (\$3.75); *Constitution of Arizona* (\$1).

101-C. State Government. (1 unit)

N. D. Houghton

Designed to meet the state requirements, with respect to training in the state constitution, for a teacher's certificate. A brief survey of state government with particular application to Arizona. (Seven assignments. Registration fee, \$5.)

Texts: *Introduction to American Government* (8th Edition Complete), by Ogg and Ray, D. Appleton-Century Company, Inc. (\$3.75); *Constitution of Arizona* (\$1).

155-C. American Foreign Policy. (3 units)

N. D. Houghton

A study of our changing relations with other nations; our foreign wars and our territorial expansion; evolution of the Monroe Doctrine; recent and current policies with respect to Europe, Asia, and Latin America. (Twenty assignments. Registration fee, \$15.)

Texts: *A Diplomatic History of the American People* (Second Edition), by Bailey, F. S. Crofts & Co. (\$4.25); *Rise of American Civilization* (complete), by Beard, The Macmillan Company (\$3.50).

PSYCHOLOGY

- 1a-C. Elementary Psychology I. (3 units) O. A. Simley
 A general introduction to the study of human behavior. The laws and principles underlying individual differences, intelligence, personality, heredity, environment, and the nervous system in relation to behavior and learning are studied. (Twenty assignments. Registration fee, \$15.)
 Texts: *Psychology* (Fourth Edition), by Woodworth, Henry Holt and Co., Inc. (\$2.85); *Experimental Foundations of General Psychology* (Revised Edition), by Valentine, Farrar & Rinehart, Inc. (\$2.25).
- 1b-C. Elementary Psychology II. (3 units) O. A. Simley
 A continuation of Elementary Psychology 1a-C. Memory, motivation, feeling and emotion, perception, thinking, and how to use psychology in personal adjustment are examined. (Twenty assignments. Registration fee, \$15.)
 Texts: *Psychology* (Fourth Edition), by Woodworth, Henry Holt and Co., Inc. (\$2.85); *Experimental Foundations of General Psychology*, (Revised Edition), by Valentine, Farrar & Rinehart, Inc. (\$2.25).

SOCIOLOGY

- 95-C. Social Problems. (2 units) F. A. Conrad
 An analysis of population problems, race relations, broken homes, crime, dependency, etc. The development of new social attitudes and social values, socialized education, community organization, and other proposed solutions are considered as means of adjustment to a changing social order. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Social Problems and Social Planning*, by North, McGraw-Hill Book Company, Inc. (\$3.50); *Social Aims in a Changing World*, by Beach, Stanford University Press (\$1.75).
- 181-C. Principles of Sociology. (3 units) F. A. Conrad
 An analysis of groups, institutions, social organizations, social change, social control, and such social processes as competition, conflict, cooperation, social disorganization, etc. (Twenty assignments. Registration fee, \$15.)
 Text: *Principles of Sociology* (1933 Edition), by Hiller, Harper & Brothers (\$3.50).
- 186-C. Charities and Social Work. (2 units) F. A. Conrad
 Causes and problems of dependence; the methods of treatment used by public and private agencies; the principles, aims, and types of social work. (Fifteen assignments. Registration fee, \$10.)
 Texts: *American Charities and Social Work*, by Warner, Queen, and Harper, T. J. Crowell Company (\$3.75); *The Field of Social Work*, by Fink, Henry Holt and Company, Inc. (\$3).

SPANISH

- 1a-1C. Elementary Spanish I. (2 units) John Brooks
 The elements of Spanish grammar with exercises in reading and composition. Elementary Spanish may be taken only when satisfactory arrangements for acquiring pronunciation, such as private instruction or residence with Spanish-speaking people, can be made by the student. An oral examination may be required upon completion of the course. (Fifteen assignments. Registration fee, \$10.)
 Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *New First Spanish Book*, by Wilkins, Henry Holt and Company, Inc. (\$1.72).
- 1a-2C. Elementary Spanish II. (2 units) John Brooks
 This course is a continuation of Elementary Spanish I. Elementary Spanish I and II cover the first semester's work in college. (Fifteen assignments. Registration fee, \$10.)
 Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *New First Spanish Book*, by Wilkins, Henry Holt and Company, Inc. (\$1.72).
- 1b-1C. Elementary Spanish III. (2 units) John Brooks
 Grammar, composition, and reading. Prerequisite, 1 semester of college work or its equivalent. (Fifteen assignments. Registration fee, \$10.)

Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *New Second Spanish Book*, by Wilkins, Henry Holt and Company, Inc. (\$1.84).

- 1b-2C. Elementary Spanish IV. (2 units) John Brooks
This course is a continuation of Elementary Spanish III. Elementary Spanish III and IV cover the second semester's work in college. Fifteen assignments. Registration fee, \$10.)
Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *New Second Spanish Book*, by Wilkins, Henry Holt and Company, Inc. (\$1.84).
- 3a-1C. Intermediate Spanish I. (2 units) John Brooks
Reading with exercises in syntax and composition. Prerequisite, 1 year of college work or its equivalent. (Fifteen assignments. Registration fee, \$10.)
Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *Spanish Review Grammar*, by Castellano and Brown, Charles Scribner's Sons (\$1.80); *Zaragüeta*, by Carrión and Aza, Benj. H. Sanborn & Co. (\$1.20).
- 3a-2C. Intermediate Spanish II. (2 units) John Brooks
This course is a continuation of Intermediate Spanish I. Intermediate Spanish I and II cover the first semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)
Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *Spanish Review Grammar*, by Castellano and Brown, Charles Scribner's Sons (\$1.80); *El Zarco*, by Altamirano, W. W. Norton and Company (\$1.35).
- 3b-1C. Intermediate Spanish III. (2 units) John Brooks
Reading with exercises in syntax and composition. Prerequisite, 3 semesters of college work or their equivalent. (Fifteen assignments. Registration fee, \$10.)
Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *Advanced Spanish Composition and Conversation*, by Espinosa, Benj. H. Sanborn & Co. (\$1.40); *El Aguila y la Serpiente*, by Guzman, W. W. Norton and Company (\$1.65); *A Spanish Reference Grammar*, by Wilkins, Henry Holt and Company (\$1.50).
- 3b-2C. Intermediate Spanish IV. (2 units) John Brooks
This course is a continuation of Intermediate Spanish III. Intermediate Spanish III and IV cover the second semester's work of the second year in college. (Fifteen assignments. Registration fee, \$10.)
Texts: *How to Study Modern Languages in College*, by Hagboldt, University of Chicago Press (25c); *Advanced Spanish Composition and Conversation*, by Espinosa, Benj. H. Sanborn & Co. (\$1.40); *El Abencerraje*, by De Villegas, F. S. Crofts & Co. (85c); *La Reja*, by the Quinteros, Benj. H. Sanborn & Co. (85c); *A Spanish Reference Grammar*, by Wilkins, Henry Holt and Company (\$1.50).
- 14a-C. Elementary Spanish Composition I. (2 units) John Brooks
Practice in writing moderately easy Spanish. Prerequisite, 2 years of college Spanish, or their equivalent. (Fifteen assignments. Registration fee, \$10.)
Texts: *Elementary Spanish Prose Book* (Second Revised Edition), by Wilkins, Benj. H. Sanborn & Co. (\$1.40); *A Spanish Reference Grammar*, by Wilkins, Henry Holt and Company (\$1.50).
- 14b-C. Elementary Spanish Composition II. (2 units) John Brooks
This course is a continuation of Elementary Spanish Composition I. (Fifteen assignments. Registration fee, \$10.)
Texts: *Elementary Spanish Prose Book* (Second Revised Edition), by Wilkins, Benj. H. Sanborn & Co. (\$1.40); *A Spanish Reference Grammar*, by Wilkins, Henry Holt and Company (\$1.50).
- 20-C. Spanish Commercial Correspondence. (2 units) John Brooks
Purpose of the course is to offer the Spanish student a mastery of the accepted commercial forms and the business vocabulary in actual use today. (Fifteen assignments. Registration fee, \$10.)
Text: *Español Práctico Comercial*, by Thompson and Arán, Longmans, Green & Co. (\$1.60).

- 103a-C. Advanced Spanish Composition I. (2 units) John Brooks
A practical course in writing Spanish. Prerequisites, Spanish 14a and 14b or their equivalent. (Fifteen assignments. Registration fee, \$10.)
Texts: *Present Day Spanish* (Revised Edition), by Lemy, Dryden Press (\$2); *A Spanish Reference Grammar*, by Wilkins, Henry Holt and Company (\$1.50).
- 103b-C. Advanced Spanish Composition II. (2 units) John Brooks
This course is a continuation of Advanced Spanish Composition I. (Fifteen assignments. Registration fee, \$10.)
Texts: *Present Day Spanish* (Revised Edition), by Lemy, Dryden Press (\$2); *A Spanish Reference Grammar*, by Wilkins, Henry Holt and Company (\$1.50).