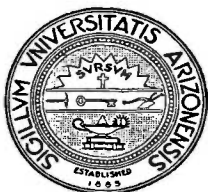


Vol. XXIX, No. 6

December, 1936



University of Arizona Record

UNIVERSITY EXTENSION DIVISION

CORRESPONDENCE COURSES

ANNOUNCEMENT FOR 1936-37

"The University Extended into Your Community"

PUBLISHED BY
University of Arizona
TUCSON, ARIZONA

University of Arizona --- Extension Division
APPLICATION FOR INSTRUCTION
(Please fill out completely)

1. Name in full.....
(Please print)
Maiden name.....
(For married women)
2. Present address.....
Town..... State.....
3. Permanent address.....
4. Place of birth..... Date.....
5. Have you registered before at U. A.?.....
6. Have you ever attended U. A. Summer School?.....
7. For what degree are you a candidate?.....
8. What is your major subject?.....
9. Have you undertaken correspondence or extension class work here before?..... Date.....
10. Present occupation.....
11. To what library have you access?.....

SCHOLASTIC RECORD

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

CORRESPONDENCE COURSES DESIRED

Title of courses	Course numbers	Units	Registration fees at \$5.00 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 STAFF

Burgess, Paul Steere, Ph.D. President of the University
 Vosskuhler, Max. P., M.S. Director
 McCarty, Esther, B.A. Secretary
 Toppel, Helen, B.S. Stenographer

INSTRUCTION STAFF

Bealer, Lewis W., Ph.D. Instructor in History and Pol. Science
 Boldyreff, Alexander W., Ph.D. Assistant Professor of Mathematics
 Brown, Elmer J., Ph.D. Professor of Bus. Admin. and Economics
 Cable, W. Arthur, M.A. Associate Professor of Speech
 Carpenter, Edwin F., Ph.D. Professor of Astronomy
 Carrington, Herbert D., Ph.D. Professor of German
 Clampitt, Audrey Camp, M.A. Assistant Professor of Piano
 Clarkson, James W., Jr., Ph.D. Professor of Secondary Education
 Conrad, Frederick A., Ph.D. Professor of Sociology
 Crooks, Donald M., Ph.D. Associate Professor of Botany
 Davis, Richard N., M.S. Associate Professor of Dairy Husbandry
 Dudley, Sarah E., M.A. Associate Professor of English
 Eberling, Frances, M.A. Assistant Professor of Spanish
 Ellis, Willis D., Ph.D. Instructor in Philosophy and Psychology
 Fowler, Frank H., Ph.D. Professor of Classical Literature
 Frazier, Allegra, M.A. Professor of English
 Garretson, Oliver K., Ph.D. Associate Professor of Secondary Educ.
 Graesser, Roy R., Ph.D. Associate Professor of Mathematics
 Herrick, George F., M.B.A. Associate Professor of Bus. Admin.
 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
 Klemmedson, Linne D., M.S. Professor of Agricultural Education
 Larson, Emil L., Ph.D. Professor of Education
 Leonard, Raymond J., Ph.D. Professor of Geology
 Lockwood, Francis C., Ph.D. Professor of English
 Lowell, John L., M.M. Assistant Professor of Music Theory
 Mewborn, A. Boyd, M.S. Instructor in Math. and Physical Science
 Miller, Nelle, M.A. Assistant Professor of Mathematics
 Nichols, George R., M.A. Assistant Professor of Spanish
 Pattison, Sidney F., M.A. Professor of English
 Picard, Olive G., M.A. Assistant Professor of Home Economics
 Repp, Austin C., Ph.D. Associate Professor of Education
 Schmidt, Andrew B., M.A. Associate Professor of Economics
 Schneck, Maximilian R., Ph.D. Professor of Phil. and Psychology
 Scott, Everett L., Ph.D. Associate Professor of Animal Husbandry
 Simley, Ole A., Ph.D. Associate Professor of Psychology
 Smith, Howard V., M.S. Assistant Professor of Agric. Chemistry
 Smith, Margaret C., Ph.D. Professor of Home Economics
 Tanner, Clara Lee, M.A. Assistant Professor of Archaeology
 Tremblay, Napoleon J., Ph.D. Assistant Professor of French
 Tucker, William J., Ph.D. Professor of English
 Walker, John F., Ph.D. Professor of Educational Psychology

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

DEPARTMENT OF EXTENSION INSTRUCTION

BUREAU OF CORRESPONDENCE COURSES

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 regular 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.

BUREAU OF EXTENSION CLASSES

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.

DEPARTMENT OF PUBLIC SERVICE

BUREAU OF DRAMATICS AND SPEECH

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 two weeks. Borrowers pay the parcel post charges on all shipments of materials. The Arizona High School Speech Arts League has been organized to promote intelligent discussion of vital questions, and, together with intramural and interscholastic activities in extemporaneous speaking, oratory, dramatic and humorous reading, and one-act plays, to stimulate the practice of good public speaking among the young people in the high schools. This service is conducted in co-operation with the Division of Speech of the University.

BUREAU OF LECTURE AND LYCEUM SERVICE

Lecturers 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.

BUREAU OF LIBRARY EXTENSION

Library packages, made up of materials bearing upon vital current topics, are available. These packages consist of books, pamphlets, and newspaper and magazine clippings; they are lent for periods of two weeks. Reading guides are available covering a wide range of the world's best literature, biography, and history, as well as trades, industries, and sciences. These guides have been prepared by the United States Bureau of Education and the American Library Association. They are designed for the benefit of persons who, without thought of college credit, desire to pursue reading along definite lines. A nominal fee will be charged for the pamphlets. This service is conducted in co-operation with the University Library.

BUREAU OF PUBLICATIONS

Authentic information concerning the University is disseminated regularly. All University publications are edited and published by the Bureau.

BUREAU OF VISUAL EDUCATION

Moving pictures and stereopticon slides are available to anyone equipped with suitable projectors upon payment of a nominal rental or service charge. Exhibitors pay the express or parcel post charges on all shipments of pictures.

CORRESPONDENCE COURSES

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 needs 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 six 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 of credit represents one class period per week for a semester of seventeen weeks, two 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 pass an examination in this subject.

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 twelve 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. Students taking residence work at the University of Arizona may not register for correspondence courses without the written permission of the Registrar. 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 not register for correspondence courses until the period of suspension is over.

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 sixty 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.

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 assignments 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 twelve months of the time of registration, a time extension of twelve 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 six months from 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 six months from 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 to cover registration costs. Such refund of fees will be made only if the registration is withdrawn within six months from 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 has been adopted, 8½ by 11 inches in size, especially adapted for correspondence manuscripts. 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, cardboard, \$1; notebook, leatherette, \$1.60.

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

- 2-C. Dairy Fundamentals. (2 units) R. N. Davis
 Profitable dairying and dairy sanitation; properties of milk; operation of cream separators; testing milk; and butter making. An additional unit of credit may be obtained if the student later attends the University and completes the laboratory work ordinarily given in connection with this course. (Fifteen assignments. Registration fee, \$10.)
 Text: *Principles of Dairying*, by Judkins and Smith, John Wiley and Sons (\$3).
- 101-C. Soil Physics. (3 units) H. V. Smith
 The formation, genesis, and classification of soils; the suitability of various types for agricultural purposes; the physical properties of soils and their measurement; physical properties of soils related to the chemical and biological activity of the soil and their relation to crop production; soil colloids and organic matter as related to physical properties; soil moisture; soil air and temperature interrelationships. An additional unit of credit may be obtained if the student later attends the University and completes the laboratory work ordinarily given in connection with this course. (Twenty assignments. Registration fee, \$15.)
 Text: *The Nature and Properties of Soils* (Revised Edition), by Lyon and Buckman, Macmillan Co. (\$3.50).
 References: Assigned bulletins from various agricultural experiment stations (supplied by University Extension Division).
- 114-C. Feeding Livestock. (3 units) E. L. Scott
 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 Henry and Morrison, Henry-Morrison Co. (\$4.50).
 References: Experiment station and U. S. Department of Agriculture bulletins (supplied by University Extension Division).

ARCHAEOLOGY

- 1a-C. Anthropology I. (3 units) Clara L. Tanner
 Development of primitive man on the Eastern Hemisphere. Origin and growth of man's social, religious, and political institutions. (Twenty assignments. Registration fee, \$15.)
 Text: *Our Prehistoric Ancestors*, by Cleland, Garden City Pub. Co. (\$1.25).
- 1b-C. Anthropology II. (3 units) Clara L. Tanner
 Brief survey of the early history of man in America, his origin, widespread distribution over the two Americas, and subsequent cultures. A study of the Mound Builders of the Mississippi Valley, early man in the Southwest, and advanced cultures of Mexico and South America complete the story of man's advancement toward civilization in the New World before the conquest of the Spaniards. (Twenty assignments. Registration fee, \$15.)
 Text: No one text is used in this course, and it is suggested that no one attempt the course without access to a library.
- 108-C. Egypt. (2 units) Clara L. Tanner
 A cultural survey of the Nile Valley; geographical and geological histories; origin of the people and amalgamations. Study of social, religious, and political organization and historical development of architecture. Brief survey of the place of Egypt in world history. (Fifteen assignments. Registration fee, \$10.)
 Text: *History of Egypt*, by Breasted, Charles Scribner's Sons (\$7.50).

ASTRONOMY

- 1a-C. Descriptive Astronomy I. (2 units) E. F. Carpenter
 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* (Second Edition), by Baker, D. Van Nostrand and Co. (\$3.75).

1b-C. Descriptive Astronomy II. (2 units) E. F. Carpenter

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* (Second Edition), by Baker, D. Van Nostrand and Co. (\$3.75).

BOTANY

1-C. General Botany. (2 units) D. M. Crooks

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. An additional 2 units of credit may be obtained by completing the laboratory work in residence at the University. (Fifteen assignments. Registration fee, \$10.)

Text: *Botany* (Second Edition), by Robbins and Rickett, D. Van Nostrand and Co. (\$3.75).

6-C. Plant Ecology. (2 units) D. M. Crooks

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, General Botany 1. An additional 2 units of credit may be obtained by completing the laboratory work ordinarily given in connection with this course in residence. (Fifteen assignments. Registration fee, \$10.)

Text: *Plant Ecology*, by Weaver and Clements, McGraw-Hill Book Co. (\$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 relationships, 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 Management*, by Maynard, Wiedler and Reyer, The Ronald Press Co. (\$3.75); *Introduction to Business, A Case Book*, by Gilbert and Gragg, McGraw-Hill Book Co. (\$3); a syllabus or workbook.

11-C. Economic Geography. (3 units) G. F. Herrick

Dealing 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* (Revised Edition), by Whitebeck and Finch, McGraw-Hill Book Co. (\$3.50); *Exercises and problems in Elementary Economic Geography*, by Blanchard, McGraw-Hill Book Co. (\$1); *Ready Reference Atlas*, Rand and McNally (\$1).

31a-C. Principles of Accounting I. (3 units) R. M. Howard

Fundamental principles of accounting, developing the theory of debits and credits as applied to the ledger accounts, books of original entry, adjusting and closing the books, and related problems. Special consideration is given to the preparation of financial statements, the use of work sheets, the interpretation of statements by means of important ratios, the handling of cash, commercial paper, discounts, receivables, purchases, sales, controlling accounts, inventories, cost of goods sold, and depreciation in a sole proprietorship business. Adapted to the needs of adult beginners having no previous bookkeeping experience, who desire in a short time to secure the necessary training to operate successfully a modern set of books. Also adapted to the needs of students who have had some bookkeeping experience. (Twenty-five assignments. Registration fee, \$15.)

Text: *Hadley's Pathfinder Course in Executive Accounting*, Part One, by LeDeuc, Morton and Gordon, Hadley School of Executive Accounting (\$8.50).

31b-C. Principles of Accounting II. (3 units) R. M. Howard

A continuation of Principles of Accounting 31a, which is a prerequisite to this course. Full consideration is given to the accounts and records of a mercantile business having five departments operating as a partnership which is later incorporated. Abundant practice is given in the adjusting of partner-

ship accounts, distribution of earnings to partners, dissolution of a partnership, full procedure of incorporating stock companies with par value and no par value stock, system building with a modern chart of ledger accounts, routing business vouchers in such a manner that a perfect internal check is provided, safeguarding cash receipts, control of cash disbursements, imprest funds, departmental merchandising accounts, stock control, costing sales by lines, the use of modern unit records; that is, cash received, check record, invoice record, sales record, and journal. Charts and diagrams assist the student in mastering the recording of business transactions as found in present day business enterprises. The student is prepared to understand the many accounting system manuals now available illustrating and describing accounting procedure used in specialized lines of business. (Twenty-six assignments. Registration fee, \$15.)

Text: *Hadley's Pathfinder Course in Executive Accounting*, Part Two, by LeDeuc, Morton and Gordon, Hadley School of Executive Accounting (\$13).

CLASSICAL LITERATURE

- 1a-1C. **Beginners' Course in Latin I. (2 units)** Frank H. Fowler
 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 Co. (\$1.20).
- 1a-2C. **Beginners' Course in Latin II. (2 units)** Frank H. Fowler
 This course is a continuation of Beginners' Course in Latin I. Beginners' Course in 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 Co. (\$1.60).
- 1b-1C. **Beginners' Course in Latin III. (2 units)** Frank H. Fowler
 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 Co. (\$1.60).
- 1b-2C. **Beginners' Course in Latin IV. (2 units)** Frank H. Fowler
 This course is a continuation of Beginners' Course in Latin III. Beginners' Course in 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 Co. (\$1.60).
- 2a-1C. **Roman Literature, Elementary Course I. (2 units)** Frank H. Fowler
 The reading of selections from the writings of Cicero. Prerequisite, Beginners' Course in Latin 1b or its equivalent. (Fifteen assignments. Registration fee, \$10.)
 Text: *Orations of Cicero*, by Moore and Barss, Ginn and Co. (\$2).
- 2a-2C. **Roman Literature, Elementary Course II. (2 units)** Frank H. Fowler
 This course is a continuation of Roman Literature, Elementary Course I. Roman Literature, 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 Co. (\$2).
- 2b-1C. **Roman Literature, Elementary Course III. (2 units)** Frank H. Fowler
 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 and Co. (\$2); *Latin Grammar* (paper text edition), by Elmer, Macmillan Co. (\$1.50).
- 2b-2C. **Roman Literature, Elementary Course IV. (2 units)** Frank H. Fowler
 This course is a continuation of Roman Literature, Elementary Course III. Roman Literature, 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 and Co. (\$2); *Latin Grammar* (paper text edition), by Elmer, Macmillan Co. (\$1.50).

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 (Third Edition), by Fairchild, Furniss and Buck, Macmillan Co. (\$2.50); *Questions and Problems in Economics* (Third Edition) by Haskell and Taylor, Macmillan Co. (75c).

1b-C. Introduction to Economics II. (3 units) E. J. Brown

This is a continuation of Introduction to Economics 1a. Questions considered include taxation, industrial organization, the N.R.A., the business cycle, inter-regional 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 (Third Edition), by Fairchild, Furniss and Buck, Macmillan Co. (\$2.50); *Questions and Problems in Economics* (Third Edition), by Haskell and Taylor, Macmillan Co. (75c).

EDUCATION

101-C. Modern Education. (3 units) J. W. Clarson, Jr.

Representative features of public education in America; its organization, its administration, its policies, and its techniques. Planned to meet the needs of prospective teachers, of teachers in service seeking professional advancement and a renewed acquaintance with modern education, and of nonteachers who want a general overview of the educational system. (Twenty assignments. Registration fee, \$15.)

Text: *An Introduction to Education and the Teaching Process*, by Adams and Taylor, Macmillan Co. (\$2.50).

106-C.* Comparative Education. (3 units) 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. Five leading nations will be considered—England, France, Germany, Italy, and the United States. (Twenty assignments. Registration fee, \$15.)

Text: *Comparative Education*, by Kandel, Houghton Mifflin Co. (\$4).

108-C. Rural Education. (3 units) 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. The early part of the course deals with those factors that have made rural life and education what they are today. On this as a basis the latter part 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: *Rural Life and Education* (Revised Edition), by Cubberley, Houghton Mifflin Co. (\$1.90); *Every Day Problems of the Country Teacher*, by Lowth, Macmillan Co. (\$2); *Arizona School Law* (supplied by State Superintendent of Public Instruction, Phoenix, Arizona).

109-C.* Vocational Education. (2 units) L. D. Klemmedson

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 par-

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

ticular 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 and Sons, Inc. (\$2.50); *Vocational Education in a Democracy*, by Prosser and Allen, Century Co. (\$2.75.)

110-C.* Philosophy of Education. (3 units) 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.)

Text: *Basic Principles in Education*, by Morrison, Houghton Mifflin Co. (\$2.50).

111-C.* History of Education. (3 units) 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 Co. (\$3.50).

112-C.* History of Education in the United States. (3 units) A. C. Repp

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 Co. (\$3).

121-C.* The Elementary School. (3 units) 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.)

Texts: *Modern Methods and the Elementary Curriculum* (Revised Edition), by Phillips, Century Co. (\$2.50); *Course of Study for Elementary Schools of Arizona* (supplied by the State Department of Education, Phoenix, Arizona).

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

For all preparing for teaching or for administrative work in secondary schools. The purpose of the high school; the high-school student body; the relationship between the high school and the elementary school; and between the high school and the college, the junior high school; the curriculum of the high school and a comparative study of foreign school systems. (Twenty assignments. Registration fee, \$15.)

Text: *Secondary Education*, by Douglas, Houghton Mifflin Co. (\$2.75).

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

How to bring about most certainly and economically the changes in the behavior of the individual which are desirable in the educational process. The native equipment of the child. Processes involved in building upon or changing this equipment; selection of general principles of learning, a summary of methods for the measurement of progress in school subjects. Prerequisite, Elementary Psychology 1a, or its equivalent. (Twenty assignments. Registration fee, \$15.)

Texts: *An Introduction to Educational Psychology*, by Griffith, Farrar and Rinehart (\$3); *Workbook in Educational Psychology*, by Griffith-Corey-Potthoff, Farrar and Rinehart (\$1.25).

- 154-C.* Statistical Methods in Education. (3 units) 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*, by Garrett, Longmans, Green and Co. (\$3.50).

- 157-C.* Educational Measurements in High School. (3 units) A. C. Repp

The principles underlying the construction and use of good examinations. Some of the better types of standardized tests will be studied. Particular stress will be placed upon the use of examinations as teaching instruments, from the teacher's viewpoint as well as from a supervisory angle. (Twenty assignments. Registration fee, \$15.)

Texts: *Educational Measurement in High School* (1930 Edition), by Odell, Century Co. (\$3.25); *The Objective or New Type of Examination*, by G. M. Ruch, Scott, Foresman and Co. (\$2.20).

- 160-C.* School Administration. (3 units) 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. Topics include organization, general and specific administrative duties, supervision, and community relationships. (Twenty assignments. Registration fee, \$15.)

Text: *Fundamentals of Public School Administration*, by Reeder, Macmillan Co. (\$2.25).

ENGLISH

- 1a-C. English Composition. (3 units) Allegra Frazier

Textbook study, exercises, and frequent practice in theme writing. The student should have free access to a good dictionary—either Webster's Collegiate Dictionary or the Collegiate Standard Dictionary is recommended. (Twenty assignments. Registration fee, \$15.)

Texts: *Practical English Composition* (Special Edition, 1931), by Jones, Century Co. (\$2); *Practical English Exercises*, by Jones, Century Co. (55c).

- 6-C. Modern Grammar and Modern Usage. (3 units) Allegra Frazier

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. The student will need a textbook and a syllabus of the diagramming system to be employed. In addition, easy access to the use of some standard unabridged dictionary is imperative. (Twenty assignments. Registration fee, \$15.)

Texts: *Syllabus for English Six*, Co-operative Book Store, University of Arizona (75c); *Webster's Collegiate Dictionary* (Fifth Edition), Merriam (\$3.50) or any other good collegiate dictionary.

- 29b-C. American Literature. (3 units) F. C. Lockwood

Wide reading of drama and poetry. The course aims to interpret the spirit of America through its literature, and, on the other hand, to show how American ideals have been influenced by our men of letters. (Twenty assignments. Registration fee, \$15.)

Texts: *Representative American Dramas National and Local*, by Moses, Little, Brown and Co. (\$3.50); *Modern American Poetry* (Fourth Revised Edition), by Untermeyer, Harcourt, Brace and Co. (\$2.50).

- 104a-C. Story Writing. (3 units) Sarah Dudley

Elementary study of theory, with analysis of typical stories and practice in writing stories. (Twenty assignments. Registration fee, \$15.)

Texts: *Twenty-five Finest Short Stories* (College Edition), by O'Brien, Long and Smith, Inc. (\$2); *Weaving the Short Story* (College Edition), by Bement, Long and Smith, Inc. (\$2.25).

- 126a-C. Survey of English Literature I. (3 units) S. F. Pattison

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* (Revised Edition), by Snyder and Martin, Macmillan Co. (\$3.50); *History of English Literature*, by Neilson and Thorndike, Macmillan Co. (\$1.60).

- 126b-C. Survey of English Literature II. (3 units) S. F. Pattison
 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* (Revised Edition), by Snyder and Martin, Macmillan Co. (\$3.50); *History of English Literature*, by Neilson and Thorndike, Macmillan Co. (\$1.60).
- 131a-C. Shakespeare. (3 units) S. F. Pattison
 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. Prerequisite, Survey of English Literature 126a and 126b. (Twenty assignments. Registration fee, \$15.)
 Texts: *The Facts About Shakespeare*, by Neilson and Thorndike, Macmillan Co. (\$1.50); the Shakespearean plays (Arden Edition): *Much Ado About Nothing*; *Henry IV, Part I*; *Henry V*; *Romeo and Juliet*, *Macbeth*; *Othello*; *Antony and Cleopatra*; and *The Tempest*; D. C. Heath and Co. (60c each).
- 134-C. Modern Drama. (3 units) S. F. Pattison
 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 seventy-five years. (Twenty assignments. Registration fee, \$15.)
 Texts: *Twenty-five Modern Plays* (Text Edition, by Tucker, Harper and Brothers (\$3.75); *A Doll's House*, by Ibsen, Samuel French (35c); *Candida*, by Shaw, Brentano (75c).

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 Co. (\$1.60); *Petits Contes de France* (1929 Enlarged Edition), by Méras and Roth, American Book Co. (\$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 Co. (\$1.60); *Petits Contes de France* (1929 Enlarged Edition), by Méras and Roth, American Book Co. (\$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 Co. (\$1.60); *Monte Cristo* (Spiers Edition), by Dumas, D. C. Heath and Co. (80c).
- 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 Co. (\$1.60); *Monte Cristo* (Spiers Edition), by Dumas, D. C. Heath and Co. (80c).
- 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, Elementary French 1a and 1b, or their equivalent. (Fifteen assignments. Registration fee, \$10.)
 Texts: *Alternate French Review Grammar and Composition Book*, by Carnahan, D. C. Heath and Co. (\$1.30); *Carmen et Autres Nouvelles* (Blondheim Edition), by Mérimée, D. C. Heath and Co. (\$1).

- 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 Co. (\$1.30); *Les Misérables* (edited by Campbell), by Hugo, D. C. Heath and Co. (90c).
- 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's 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 and Bacon Co. (80c); *Eugénie Grandet* (Spiers Edition), by Balzac, D. C. Heath and Co. (\$1.10).
- 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 and Bacon Co. (80c); *Pêcheur d'Islande* (Super Edition), by Loti, D. C. Heath and Co. (90c).

GEOLOGY

- 1a-C. General Geology I (Physical). (3 units) R. J. Leonard
 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: *Geology, Physical and Historical*, by Cleland, American Book Co. (\$3.60).
- 1b-C. General Geology II (Historical). (3 units) R. J. Leonard
 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: *Geology, Physical and Historical*, by Cleland, American Book Co. (\$3.60).

GERMAN

- 1a-1C. Elementary 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 Bagster-Collins, Macmillan Co. (\$1.40).
- 1a-2C. Elementary German II. (2 units) H. D. Carrington
 This course is a continuation of Elementary German I. Elementary German I and II cover the first semester's work in college. (Fifteen assignments. Registration fee, \$10.)
 Text: *First Book in German*, by Bagster-Collins, Macmillan Co. (\$1.40).
- 1b-1C. Elementary 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.)
 Texts: *Essentials of German* (Fifth Edition), by Vos, Henry Holt and Co. (\$1.60); *An Elementary German Reader* (Revised Edition), by Zeydel, Alfred Knopf (\$1.35).
- 1b-2C. Elementary German IV. (2 units) H. D. Carrington
 This course is a continuation of Elementary German III. Elementary German III and IV cover the second semester's work in college. (Fifteen assignments. Registration fee, \$10.)

Texts: *Essentials of German* (Fifth Edition), by Vos, Henry Holt and Co. (\$1.60); *An Elementary German Reader* (Revised Edition), by Zeydel, Alfred Knopf (\$1.35); *Nachlese*, by Diamond and Reinsch, Henry Holt and Co. (\$1.55).

3a-1C. Second Year German I. (2 units) H. D. Carrington

This course is a continuation of Elementary German 1b. 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 Grossstadt*, by Hohrath, F. S. Crofts and Co. (\$1.35); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Co. (\$1.15).

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 Grossstadt*, by Hohrath, F. S. Crofts and Co. (\$1.35); *Still und Bewegt*, by Diamond and Rosenfeld, Henry Holt and Co. (\$1.45); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Co. (\$1.15).

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's college work. (Fifteen assignments. Registration fee, \$10.)

Texts: *Still und Bewegt*, by Diamond and Rosenfeld, Henry Holt and Co. (\$1.45); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Co. (\$1.15).

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 Co. (\$1.45); *German Composition*, by Carrington and Holzwarth, D. C. Heath and Co. (\$1.15).

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: *German Science Reader*, by Scholz, Macmillan Co. (\$1.20).

HISTORY

2a-C. American History I. (3 units) H. A. Hubbard

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, 1492-1929* (Revised Edition), by Bassett, Macmillan Co. (\$4); *Documentary Source Book of American History, 1606-1926* (Third Edition), by MacDonald, Macmillan Co. (\$2.75).

2b-C. American History II. (3 units) H. A. Hubbard

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, 1492-1929* (Revised Edition), by Bassett, Macmillan Co. (\$4); *Documentary Source Book of American History, 1606-1926* (Third Edition), by MacDonald, Macmillan Co. (\$2.75); *The Rise of American Civilization* (One Volume Edition), by Beard, Macmillan Co. (\$3.50).

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, Macmillan Co. (\$2.90); *History of England and Greater Britain*, by Cross, Macmillan Co. (\$4).

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, Macmillan Co. (\$2.90); *History of England and Greater Britain*, by Cross, Macmillan Co. (\$4).

105b-C. Nineteenth Century Europe II (Europe
Since 1815). (3 units)

H. A. Hubbard

The liberal and reform movements of Europe during the last century; the evolution of constitutional government; various movements toward national unity; the rise of modern Italy; the Franco-Prussian war, the rise of modern Germany. (Twenty assignments. Registration fee, \$15.)

Texts: *Europe Since 1815* (Revised Edition), by Hazen, Henry Holt and Co. (\$5); *Readings in European History Since 1814*, by Scott and Baltzly, F. S. Crofts and Co. (\$3.50).

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, Macmillan Co. (\$4); *A Source Book of Ancient History*, by Botsford, Macmillan Co. (\$2).

121-C. The Hispanic-American Colonies. (2 units) L. W. Bealer

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*, by Chapman, Macmillan Co. (\$2.40); *Readings in Hispanic American History* (edited by Clevon), Ginn and Co. (\$3.60); *Spanish Borderlands* (Textbook Edition), by Bolton, Yale University Press (\$1.80).

122-C. The Hispanic-American Republics. (2 units) L. W. Bealer

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* (1932 Edition), by Robertson, D. Appleton-Century Co. (\$4).

HOME ECONOMICS

2-C. Introduction to Nutrition. (2 units)

Margaret Smith

Selection of a diet adequate for health. The requirements of the body for energy, protein, minerals, and vitamins are discussed, and the methods by which these requirements are determined are explained. (Fifteen assignments. Registration fee, \$10.)

Text: *Nutrition and Physical Fitness* (Revised Edition, 1932), by Bogart, W. B. Saunders Co. (\$3).

23-C. Clothing Selection. (2 units)

Olive Picard

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.)

Texts: *Art in Every Day Life* (Revised Edition), by Goldstein, Macmillan Co. (\$3); *Textile Fibers, and Their Use*, by Hess, J. B. Lippincott Co. (\$2.40).

- 115-C. Home Furnishings. (3 units) Olive Picard
 The fundamental principles of design and their application to the treatment of interiors and the selection and arrangement of furnishings for the home. (Twenty assignments. Registration fee, \$15.)
 Texts: *Art in Every Day Life* (Revised Edition), by Goldstein, Macmillan Co. (\$3); *The Study of Interior Decoration*, by Jackson, Doubleday Doran and Co., Inc. (\$2.50).

MATHEMATICS

- 20-C. College Algebra. (3 units) R. F. Graesser
 This course is the equivalent of the first semester's work in algebra prescribed for all engineering courses. Prerequisite, 1½ entrance credits in algebra. (Twenty assignments. Registration fee, \$15.)
 Text: *College Algebra* (1931 Alternate Edition), by Hart, D. C. Heath and Co. (\$2.15).
- 24-C. Plane Trigonometry. (2 units) Nelle Miller
 This course is the equivalent of the first semester's work in trigonometry prescribed for all engineering courses. It may precede College Algebra when so desired. Prerequisites, 1½ entrance credits in algebra and 1 entrance credit in geometry. (Fifteen assignments. Registration fee, \$10.)
 Text: *Plane Trigonometry with Tables*, by Hart, D. C. Heath and Co. (\$2).
- 25-1C. Analytic Geometry I. (2 units) A. Boyd Mewborn
 This course is the equivalent of the first half of the second semester's work in mathematics prescribed for all engineering courses. Prerequisites, 1½ entrance credits in geometry, College Algebra 20, and Plane Trigonometry 24. (Fifteen assignments. Registration fee, \$10.)
 Text: *Analytic Geometry* (1935 Revised Edition), by Brink, D. Appleton-Century Co. (\$2.90).
- 25-2C. Analytic Geometry II. (2 units) A. Boyd Mewborn
 This course is a continuation of Analytic Geometry I. (Fifteen assignments. Registration fee, \$10.)
 Text: *Analytic Geometry* (1935 Revised Edition), by Brink, D. Appleton-Century Co. (\$2.90).
- 100a-1C. Differential Calculus I. (2 units) A. W. Boldyreff
 Fundamental principles and formulae of differential calculus with their applications. Prerequisite, Analytic Geometry 25. (Fifteen assignments. Registration fee, \$10.)
 Text: *The Calculus*, by Carmichael and Weaver, Ginn and Co. (\$2.80).
- 100a-2C. Differential Calculus II. (2 units) A. W. Boldyreff
 This course is a continuation of Differential Calculus I. (Fifteen assignments. Registration fee, \$10.)
 Text: *The Calculus*, by Carmichael and Weaver, Ginn and Co. (\$2.80).
- 100b-1C. Integral Calculus I. (2 units) A. W. Boldyreff
 Fundamental principles and formulae of integral calculus with their applications including the use of tables of integrals. Prerequisite, Differential Calculus 100a. (Fifteen assignments. Registration fee, \$10.)
 Text: *The Calculus*, by Carmichael and Weaver, Ginn and Co. (\$2.80).
- 100b-2C. Integral Calculus II. (2 units) A. W. Boldyreff
 This course is a continuation of Integral Calculus I. (Fifteen assignments. Registration fee, \$10.)
 Text: *The Calculus*, by Carmichael and Weaver, Ginn and Co. (\$2.80).

MUSIC

- 1a-C. History of Music I. (2 units) Audrey Clampitt
 This course includes a survey of primitive and semicivilized music, the rise of Christian music, polyphony, secular music, the early musical drama and its subsequent expansion, instruments, forms of composition, and the important composers both preceding and during the classical period in music. (Fifteen assignments. Registration fee, \$10.)
 Text: *The History of Music* (Revised Edition, 1927), by Pratt, G. Schirmer, Inc. (\$3).

1b-C. History of Music II. (2 units) Audrey Clampitt

This course includes a study of the Romantic School, Italian and French opera, church music, virtuosity in performers, further growth of the opera, choral music, musical education and literature, and the important composers of the romantic and modern periods in music. (Fifteen assignments. Registration fee, \$10.)

Text: *The History of Music* (Revised Edition, 1927), by Pratt, G. Schirmer, Inc. (\$3).

3a-C. Harmony I. (2 units) Audrey Clampitt

Key and scale. Intervals. Building of triads and inversions and seventh chords. Connection of triads and first inversions in four-part harmony. Passing tones, neighboring tones; motive, phrase and period form. (Fifteen assignments. Registration fee, \$10.)

Text: *Applied Harmony*, Book I, by George Wedge, G. Schirmer, Inc. (\$2).

3b-C. Harmony II. (2 units) Audrey Clampitt

The 6 chord. Connection of seventh chords and their inversions. Ninth 4 chords and modulation suspensions, anticipations, and appoggiaturas. Two-part and three-part form. (Students who plan to take second-year harmony in residence must pass an examination in key-board harmony at the University before registering for the course.) (Fifteen assignments. Registration fee, \$10.)

Text: *Applied Harmony*, Book I, by George Wedge, G. Schirmer, Inc. (\$2).

PHILOSOPHY

11-C. Introduction to Philosophy. (3 units) O. A. Simley

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: *Selected Papers on Philosophy* (Everyman's Library), by James, E. P. Dutton and Co. (70c); *Socratic Discourses* (Everyman's Library), by Plato and Xenophon, E. P. Dutton and Co. (90c); *Types of Philosophy* (1929 Edition), by Hocking, Charles Scribner's Sons (\$2.50); *Introduction to Philosophy*, by Patrick, Houghton Mifflin Co. (\$2.50).

101a-C. History of Philosophy I (Ancient and Medieval). (3 units) M. R. Schneck

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, Macmillan Co. (\$2.50); *Source Book in Ancient Philosophy*, by Bakewell, Charles Scribner's Sons (\$2); *The Searching Mind of Greece*, by Warbecke, F. S. Crofts and Co. (\$3.75).

101b-C. History of Philosophy II (Modern). (3 units) M. R. Schneck

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

Texts: *Beginners' History of Philosophy*, Vol. II (Revised Edition), by Cushman, Houghton Mifflin Co. (\$2.60); *The Spirit of Modern Philosophy*, by Royce, Houghton Mifflin Co. (\$4); *Modern Classical Philosophers* (Second and Enlarged Edition), by Rand, Houghton Mifflin Co. (\$4.50).

POLITICAL SCIENCE

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*, by Beard, Macmillan Co. (\$3); *The Government of the United States* (Fourth Edition), by Munro, Macmillan Co. (\$3.75); *Constitution of Arizona*, by Murdock, W. B. Conkey Co. (\$1.25).

PSYCHOLOGY

1a-C. Elementary Psychology I. (3 units) W. D. Ellis

A general introduction to the experimental study of human behavior. The laws and principles underlying individual differences, intelligence, personality, heredity, and environment are considered. (Twenty assignments. Registration fee, \$15.)

Texts: *Psychology* (Third Edition), by Woodworth, Henry Holt and Co. (\$2.50); *Great Experiments in Psychology*, by Garrett, Century Co. (\$2.50); *Fundamentals of Objective Psychology*, by Dashiell, Houghton Mifflin Co. (\$3); *Readings in Experimental Psychology*, by Valentine, Harper & Brothers (\$2.75).

1b-C. Elementary Psychology II. (3 units) W. D. Ellis

A continuation of Elementary Psychology 1a. The nervous system in its relation to behavior, learning, memory, motivation, feeling and emotion, perception, and thinking is examined. (Twenty assignments. Registration fee, \$15.)

Texts: *Psychology* (Third Edition), by Woodworth, Henry Holt and Co. (\$2.50); *Great Experiments in Psychology*, by Garrett, Century Co. (\$2.50); *Fundamentals of Objective Psychology*, by Dashiell, Houghton Mifflin Co. (\$3); *Readings in Experimental Psychology*, by Valentine, Harper & Brothers (\$2.75).

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 Co., 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 organization, social change, social control, and such social processes as completion, conflict, co-operation, social disorganization, etc. (Twenty assignments. Registration fee, \$15.)

Texts: *Principles of Sociology* (1933 Edition), by Hiller, Harper Brothers (\$3.50); *Outline Guide for the Study of Sociology* (1934 Edition), by Hiller, Harper Brothers (30c).

SPANISH

1a-1C. Elementary Spanish I. (2 units) G. R. Nichols

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 Co. (\$1.50).

1a-2C. Elementary Spanish II. (2 units) G. R. Nichols

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 Co. (\$1.50).

1b-1C. Elementary Spanish III. (2 units) G. R. Nichols

Grammar, composition, and reading. Prerequisite, one 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 Co. (\$1.60).

1b-2C. Elementary Spanish IV. (2 units) G. R. Nichols

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 Co. (\$1.60).

3a-1C. Intermediate Spanish I. (2 units) G. R. Nichols

Reading with exercises in syntax and composition. Prerequisite, one 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); *Temas españoles*, by Crawford, Henry Holt and Co. (\$1); *Zaragüeta*, by Carrión and Aza, Benj. H. Sanborn and Co. (\$1.20).

3a-2C. Intermediate Spanish II. (2 units) G. R. Nichols

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); *Temas españoles*, by Crawford, Henry Holt and Co. (\$1); *Short Stories*, by Trueba, Benj. H. Sanborn and Co. (\$1.15).

3b-1C. Intermediate Spanish III. (2 units) G. R. Nichols

Reading with exercises in syntax and composition. Prerequisite, three 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 and Co. (\$1.40); *El Capitán Veneno*, by Alarcón, Benj. H. Sanborn and Co. (\$1.15).

3b-2C. Intermediate Spanish IV. (2 units) G. R. Nichols

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 and Co. (\$1.40); *El Abencerraje*, by De Villegas, Benj. H. Sanborn and Co. (85c).

14a-C. Elementary Spanish Composition I. (2 units) G. R. Nichols

Practice in writing moderately easy Spanish. Prerequisite, two years of college Spanish, or their equivalent. (Fifteen assignments. Registration fee, \$10.)

Text: *Elementary Spanish Prose Book* (Second Revised Edition), by Wilkins, Benj. H. Sanborn and Co. (\$1.40).

14b-C. Elementary Spanish Composition II. (2 units) G. R. Nichols

This course is a continuation of Elementary Spanish Composition I. (Fifteen assignments. Registration fee, \$10.)

Text: *Elementary Spanish Prose Book* (Second Revised Edition), by Wilkins, Benj. H. Sanborn and Co. (\$1.40).

103a-C. Advanced Spanish Composition I. (2 units) G. R. Nichols

A practical course in writing Spanish. Prerequisites, Elementary Spanish Composition 14a and 14b or their equivalent. (Fifteen assignments. Registration fee, \$10.)

Text: *Curso Avanzado de Composición*, by Moreno-Lacalle, D. C. Heath and Co. (\$1.15).

- 103b-C. Advanced Spanish Composition II. (2 units) G. R. Nichols
This course is a continuation of Advanced Spanish Composition I. (Fifteen assignments. Registration fee, \$10.)

Texts: *Curso Avanzado de Composición*, by Moreno-Lacalle, D. C. Heath and Co. (\$1.15); *El Hombre sin Patria*, by Hale, D. C. Heath and Co. (80c).

SPEECH

- 125a-C. Principles of Argumentation and
Debate. (3 units) W. Arthur Cable

Exclusive of logical theory, but including a study of the proposition, analysis, brief drawing, organization, strategy, and debate technique and practice. An analytical and synthetic study of the principles, their application in published debates stenographically reported, and their further application in original outlines and manuscripts on argumentative questions. (Twenty assignments. Registration fee, \$15.)

Texts: *Argumentation and Debate*, by O'Neill, Laycock, and Scales, Macmillan Co. (\$2.10); *University Debaters' Annual, 1928-1929* (edited by Phelps), H. W. Wilson Co. (\$2.25).

- 125b-C. Principles of Argumentation and
Debate. (3 units) W. Arthur Cable

Logical theory and its application in the kinds, tests, and employment of evidence, arguments, and fallacies in constructive and refutary debating. (Twenty assignments. Registration fee, \$15.)

Texts: *Argumentation and Debate*, by O'Neill, Laycock, and Scales, Macmillan Co. (\$2.10); *University Debaters' Annual, 1928-1929* (edited by Phelps), H. W. Wilson Co. (\$2.25).