

*Helin G. Edgeworth '25*

New Series II, Volume Ten

Number Five

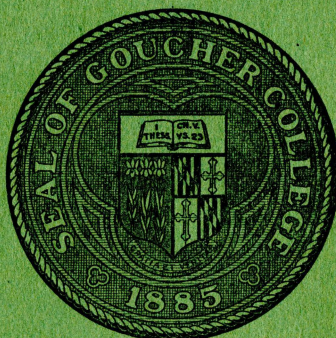
April, 1923

Published by Goucher College

Issued in August, October, December, February, April, and June

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BULLETIN OF  
GOUCHER COLLEGE  
BALTIMORE, MD.



ANNOUNCEMENT OF COURSES  
FOR 1923-1924

"Entered as second-class matter August 30, 1916, at the Baltimore, Md., postoffice under the Act of August 24, 1912." In accordance with the act of Congress of October 3, 1917, as indicated in paragraph 4 of section 429, this publication is mailable at the rate of 21 cents a pound.

BULLETIN

OF

GOUCHER COLLEGE

APRIL, 1923

ANNOUNCEMENT OF COURSES  
FOR 1923-1924

BALTIMORE  
MARYLAND

## NOTE

This number of the bulletin is an announcement of the courses as they are to be given in the year 1923-24. The complete catalogue for 1923-24 will be issued as the bulletin of next August.

April 3, 1923.

## DEFINITION OF COURSES

All courses are given as semester courses, with odd numbers denoting those of the first semester, and even numbers those of the second semester. Courses numbered thus, 1-2, are continuous courses; the first semester course is prerequisite to the second; except in elementary foreign languages, however, credit is given for the work of the first semester if it is satisfactorily completed. 1 and 2, 1R, indicate a course which is given in both semesters, the second semester being a repetition of the first. 1 or 2, indicates a course which is given in only one semester, either the first or second.

The name of the chairman of the department appears first unless otherwise indicated.

### ART

PROFESSOR FROELICHER

1-2. **Art Criticism.** Aesthetics. Lectures and discussions. Aesthetic theories; methods of criticism; field work in criticism. Open to Juniors and Seniors. Two hours, each semester. *Semester credit, two units.*

3-4. **Outline of the History of Art.** Lectures illustrated with the lantern and with photographic reproductions; reports on assigned topics. Not open to Freshmen. Two hours, each semester. *Semester credit, two units.*

7. **History of the Painting of the Renaissance.** Lectures illustrated with the lantern and with photographic reproductions; reports on assigned topics. Open to Juniors and Seniors. Prerequisite, Courses 3-4. Two hours, first semester. *Credit, two units.*

8. **History of Modern Painting.** Lectures illustrated with the lantern and with photographic reproductions; reports on assigned topics. Open to Juniors and Seniors. Prerequisite, Courses 3-4. Two hours, second semester. *Credit, two units.*

Alternates with Course 10. Not given 1923-24.

10. **Oriental Art.** A survey of the art of Asia and its influence upon early occidental art. Open to Juniors and Seniors. Prerequisite, Courses 3-4. Two hours, second semester. *Credit, two units.*

Alternates with Course 8.

### BIBLICAL LITERATURE AND COMPARATIVE RELIGION

PROFESSOR DOUGHERTY

INSTRUCTOR BALL

The immediate aim of this department is to furnish acquaintance with the origin, nature, and purpose of the writings of the Old and New Testaments and to set forth clearly the facts which are fundamental to a genuine religious faith and experience. The required courses are of primary importance because they give an accurate understanding of the Bible as sacred literature.

A comparative study of the great non-Christian cults now extant in the world furnishes a wider view of man's religious tendencies. Courses dealing with the

practical application of the teachings of the Bible are designed for those interested in Sunday School work, social service, and world evangelization. A constructive solution of the problems of religious belief is presented and the development of the early church fully outlined. In addition, the Scriptural record is made more real by the study of the monuments and inscriptions found in Bible lands.

Close correlation exists between these courses and the work in the departments of history, social science, education, and philosophy. Students wishing to specialize in the original languages of the Bible can supplement Elementary Hebrew with New Testament Greek (Greek A2).

A course in Elementary Hebrew, 21-22, will be given when there is a demand for it.

**1. The Old Testament.** A careful survey of each book with an appreciation of its historical, literary, and religious features. Lectures in addition to assigned readings both in and outside the Bible. Required of all students after the sophomore year. Open to Sophomores by special permission. Three hours, first semester. *Credit, three units.* DR. DOUGHERTY and MR. BALL.

**2. The New Testament.** Continuation of Course 1, which is prerequisite. The books of the New Testament will be studied in their historical order, and a general analysis of their contents and teaching given. Requirement same as in Course 1. Three hours, second semester. *Credit, three units.* DR. DOUGHERTY and MR. BALL.

**5. The History of Religions.** Primitive religious beliefs and practices. Modern Oriental religions, in relation to the history and development of China and Japan. Confucianism, Taoism, Shintoism. Open to Juniors and Seniors, or to Sophomores by special permission. Three hours, first semester. *Credit, three units.* DR. DOUGHERTY.

**6. The History of Religions.** The religion of the Vedas. Modern Oriental religions, in relation to the history and development of India and the entire Moslem world. Brahmanism, Jainism, Buddhism, Hinduism, Mohammedanism. Open to Juniors and Seniors, or to Sophomores by special permission. Three hours, second semester. *Credit, three units.* DR. DOUGHERTY.

**7. Fundamentals of the Christian Religion.** A study of its underlying principles. The existence of God, as a rational belief and morally helpful. The relation of God and man as manifested in the person of Jesus. The duty and destiny of man as a correlate of the foregoing. Some problems of the Christian life, *e.g.*, prayer, miracles, problem of evil, end of the world, etc. Lectures, assigned readings, papers, and discussions. Prerequisite, Philosophy 1, or by special permission may parallel Philosophy 1. Two hours, first semester. *Credit, two units.* MR. BALL.

**8. Beginnings of Christianity.** A brief survey of the Christian movement down to 200 A. D. The world of Jesus' day. The work of Jesus and his immediate disciples. Early Christian ideas as revealed in the New Testament writings. The conflict of ideas in the first half of the second century. Early church organization as seen in the ministry and sacraments. Influence of the mystery religions, etc. Prerequisite, Courses 1 and 2, or by special permission may parallel Course 2. Two hours, second semester. *Credit, two units.* MR. BALL.

**9. Missionary Needs and Methods.** A general study of the problems of foreign missionary work arising from the religious, racial, and social conditions in non-Christian lands with emphasis upon the call and preparation of missionaries, and upon the methods which must be employed in making evangelization effective. Not open to Freshmen. Three hours, first semester. *Credit, three units.* DR. DOUGHERTY.

**10. Biblical Archaeology.** A survey of the archaeological discoveries which have thrown helpful light upon Bible times and events. The main historical movements will be outlined. Not open to Freshmen. Three hours, second semester. *Credit, three units.* DR. DOUGHERTY.

**11. Sunday School Pedagogy.** A consideration of the aim, function, and organization of the Sunday School as the department of religious instruction in the church. Emphasis will be placed upon the work of the teacher and the adaptation of Bible truths to pupils of different ages. Open to Juniors and Seniors. Two hours, first semester. *Credit, two units.* DR. DOUGHERTY.

**12. Social Teachings of the Bible.** A course presenting the message of the Bible concerning the social conditions of Old and New Testament times. The relation between religion and society as set forth by the great teachers of Judaism and Christianity, with specific reference to the modern bearing of their teachings upon the religious problems of social service. Open to Juniors and Seniors. Two hours, second semester. *Credit, two units.* DR. DOUGHERTY.

## BIOLOGY

PROFESSOR LONGLEY  
ASSISTANT PROFESSOR CLELAND  
INSTRUCTOR LANGDON  
ASSISTANTS: SOISSON  
STIFFLER

The minimum requirement in biology for students majoring in the department is 15 units of elective work, which shall include Biology 20.

There may be offered in completion of the major requirement, additional courses in biology, or laboratory courses in physics or chemistry beyond the elementary requirements in those departments, or such courses as bacteriology, experimental physiology, experimental psychology, sociology, and calculus. A limited number of hours will also be accepted from the following group of courses, Art 3-4, Biblical Literature 5, 6, History 19-20, Philosophy 3, 4, and Social Science 41 or 42.

Prospective major students in biology are advised to offer French and German, when possible, rather than other modern languages, in fulfillment of the general requirements for the degree.

**1 and 2. General Biology.** The fundamental facts and principles relating to the structure and activities of living organisms, both plants and animals; the relations of organisms with one another and with their environment; the examination of a brief series of type-forms. Introductory to all other courses in the department and required of all students not later than the sophomore year. One hour lecture, one hour conference and quiz, four hours laboratory work, a semester. *Credit, three units.* DR. LONGLEY, DR. CLELAND, DR. LANGDON, and Assistants.

(This course is repeated in the second semester.)

**3-4 General Botany of Flowering Plants.** The structure, physiology, and economic uses of the vegetative organs of seed plants. Evolution of reproduction. Structure and physiology of the flower, methods of pollination, seed and fruit development and dissemination. Identification of flowering plants. Prerequisite, Course 1. One hour lecture, five hours laboratory or field work, each semester. *Semester credit, three units.* DR. CLELAND.

**5-6. Morphology and Taxonomy of Plants.** A systematic study of the structure and life histories of the various groups of plants, with the exception of the Angiosperms. Emphasis will be placed upon evolutionary tendencies among plants. Field work, familiarizing the students with the local distribution of the forms studied. Prerequisite, Course 4 or 7 or 8. One hour lecture, five hours laboratory or field work, each semester. *Semester credit, three units.* DR. CLELAND.

**7. Invertebrate Zoology.** The structure, life-histories, and relationships of the chief invertebrate groups. Prerequisite, Course 1. Two hours lecture, seven and one half hours laboratory or field work, first semester. *Credit, five units.* DR. LONGLEY and Assistant.

**8. Vertebrate Zoology.** The comparative anatomy and relationships of the chordate classes with reference to their descent and to the history of man. Prerequisite, Course 1. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* DR. LONGLEY and Assistant.

**9. General Embryology.** The fundamental facts and processes of individual development, the cell and cell-division, the germ cells, maturation, fertilization, cleavage, and the physical basis of heredity. When appropriate, genetic, as well as microscopic, methods of analysis will be applied. Prerequisite, Course 4 or 7 or 8. One hour lecture, five hours laboratory work, first semester. *Credit, three units.* DR. LONGLEY.

**10. Vertebrate Embryology.** The development of the frog and chick, with briefer references to Amphioxus, the teleost, and the mammal. Brief reference to the comparative anatomy of the vertebrates. Prerequisite, Courses 8, 9. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* DR. LONGLEY

**13-14. Histology and Microtechnique.** Primarily a course in the theory and practice of laboratory methods in preserving, sectioning, staining, and mounting material for microscopic study. Sufficient attention is paid to the structure of experimental material to introduce the student to the more important facts of histology. Prerequisite, Courses 3-4 or 7, 8. One hour lecture, two and one half hours laboratory work, each semester. *Semester credit, two units.* DR. LANGDON.

**15-16. Seminar.** Conferences, individual reports, and readings upon topics of general biological character or bearings. The subjects considered vary from year to year. References in French or German may occasionally be assigned. Open to Seniors, and exceptionally to Juniors, taking advanced courses in this department. One hour, each semester. *Semester credit, one unit.* DR. LONGLEY.

**20. Theoretical Biology.** Lecture and text-book course dealing with the general principles of biology and organic evolution; includes such topics as the origin of living substance, growth, variation, selection, development, heredity, history of man, etc. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. LONGLEY.

### BOTANY

(See Biology)

### CHEMISTRY

PROFESSOR LLOYD

ASSISTANT PROFESSORS: ARNOLD  
KELLEY

ASSISTANTS: BATEMAN  
BURD  
CRISWELL  
PICKENS

Courses 1-2 are ordinarily prerequisite to all further courses in chemistry. Special sections are arranged for students who have received entrance credit in chemistry and who wish to continue the study of chemistry in college. Any student who can give evidence of her fitness to undertake somewhat more advanced work will be admitted directly into Courses 5 and 5S.

Course 5, which completes the introductory work in general inorganic chemistry, and Course 14, which presents the general methods and principles of organic chemistry, are recommended to students who do not wish to major in chemistry.

Courses 5, 6, 9, 10, 10S, 11-12 constitute the basis of major work in the department of chemistry. The major requirement in chemistry also includes one year of college mathematics (Courses 3, and 5 or 8) and one year of college physics (Courses 1-2 or 3-4). Students who expect to choose chemistry as their major subject should arrange to take these courses as early as possible. All chemistry major students are expected to elect courses in non-scientific subjects amounting to at least fifteen units in addition to the graduation requirements.

Students who plan to teach chemistry (or general science) in secondary schools should elect courses in education, botany, and teaching of chemistry.

Students who are interested in the application of chemistry to physiology should elect physiological chemistry, nutritional physiology (Physiology 21), and bacteriology.

Students who intend to make chemistry their profession are urged to do graduate work in the subject. As preparation for such study, courses in calculus, advanced physics, German, and French are recommended.

Students expecting to study medicine should consult the Chairman of the Department of Physiology and Hygiene as early as possible in their course as to the possibility of arranging a pre-medical major.

A course in advanced physical chemistry will be given for Seniors when a sufficient number request it.

**1-2. Elementary Inorganic Chemistry.** An introductory course, comprising a systematic treatment of the fundamental principles of the subject and of the properties of the more important non-metallic elements and their compounds. Required of all students who have completed a satisfactory preparatory school course in physics, or, as alternate courses with Physics 1-2, of students who have not completed a satisfactory pre-

paratory school course in either physics or chemistry. Recommended to students who have received entrance credit in chemistry and who desire to continue the study of chemistry in college. In order that these students may make greater advancement than the beginners, they are assigned to a special section in conference and laboratory work. Three hours lecture and conference, four hours laboratory work, each semester. *Semester credit, three units.* DR. LLOYD and Assistants.

**5. Chemistry of the Metals.** The sequence followed in the lectures is based on both the qualitative and periodic classifications, and the lectures are closely coordinated with laboratory work in which the student develops inductively the methods of systematic analysis for the separation and identification of metals and acids. This course is required of all students who have chosen chemistry as their major subject, preferably in the first or second year. Prerequisite, Courses 1-2. Students who have received entrance credit in chemistry will be admitted to this course without prerequisite provided (1) that they can present a satisfactory notebook and pass an oral examination and (2) that they elect Course 5S as a parallel. Two hours lecture, four hours laboratory work, first semester. *Credit, three units.* MISS ARNOLD and Assistant.

**5S. Inorganic Chemistry.** A laboratory course in the development of fundamental laws by a series of quantitative experiments. Required as a parallel to Course 5 of all students who are exempt from Courses 1-2. Three hours laboratory work, first semester. *Credit, one unit.* MISS ARNOLD.

**6. Qualitative Analysis.** The lectures of this course deal with the laws of solution and of equilibrium. The laboratory work is the systematic qualitative analysis of simple salts and solutions, mixtures, alloys, and minerals. This course is required of all students who have chosen chemistry as their major subject, preferably in the first or second year. Prerequisite, Course 5. Three hours lecture and conference, six hours laboratory work, second semester. *Credit, four units.* MISS ARNOLD and Assistant.

**9. Quantitative Analysis.** Preliminary course, dealing with the theory and practice of typical gravimetric, electrolytic, and volumetric analyses, and including the theory and calculations of analytical chemistry. Required of all students who have chosen chemistry as their major subject, preferably in the second or third year. Prerequisite, Course 5. One hour lecture, eight hours laboratory work, first semester. *Credit, four units.*

**10. Physical Chemistry.** A study of chemical principles, with lecture demonstrations of physico-chemical experiments. Required of all students who have chosen chemistry as their major subject, and recommended to students majoring in other science departments. Prerequisite, Course 5. Three hours lecture, second semester. *Credit, three units.* DR. LLOYD.

**10S. Physical Chemistry.** A series of selected exercises in physico-chemical measurements. Required parallel with Course 10 for all students majoring in chemistry. Prerequisite, Course 9. Three hours laboratory work, second semester. *Credit, one unit.* DR. LLOYD.

**11-12. Organic Chemistry.** A study of the compounds of carbon, with emphasis on the fundamental principles of their reactions. The laboratory work includes methods of synthesis and of elementary qualitative organic analysis. Required of all students who have chosen chemistry as their major subject, preferably in the third year. Prerequisite, Courses 1-2. Three hours lecture, three hours laboratory work, each semester. *Semester credit, three units.* DR. KELLEY.

**12S. Organic Chemistry.** A course in complex organic synthesis designed to accompany Course 12, which is prerequisite or a required parallel. Three hours laboratory work, second semester. *Credit, one unit.* DR. KELLEY.

**14. Organic Chemistry.** A brief course designed primarily for majors in other science departments who are not able to spend a year in the study of organic chemistry. This course is a satisfactory prerequisite to physiological chemistry. Three hours lecture, six hours laboratory work, second semester. *Credit, four units.* DR. KELLEY.

**15. Advanced Organic Chemistry.** The lectures of this course deal with the theories of organic chemistry. The laboratory work includes fairly complex syntheses and some work in the identification of organic compounds. Prerequisite, Courses 11-12. Two hours lecture, six hours laboratory work, first semester. *Credit, four units.* DR. KELLEY.

**16. Organic Analysis.** A laboratory course designed to give the student training in the methods of qualitative and quantitative organic analysis. Prerequisite, Courses 9, 11-12. Six hours laboratory work, second semester. *Credit, two units.* DR. KELLEY.

**17 or 18. Advanced Inorganic and Analytical Chemistry.** This course will consist chiefly of laboratory work, with assigned reading, and will be adjusted to the needs of the class. Prerequisite, Course 9. Conference and laboratory work to be adjusted first or second semester. *Credit, two or three units.*

**19-20. Inorganic Preparations.** A laboratory course designed to increase the student's familiarity with chemical substances and chemical operations. Quantitative experiments may be included, at the discretion of the instructor. The course may be begun in either semester. Three hours laboratory work, each semester. *Semester credit, one unit.* DR. LLOYD.

**31-32. Physiological Chemistry.** The lectures and laboratory work of this course deal with a study of (1) the chemistry of proteins, carbohydrates, and fats; (2) digestion and absorption; (3) the separation and analysis of some of the constituents of milk, tissues, bile, blood, and urine. Prerequisite, Courses 5 and 11-12 or 14. Two hours lecture, four hours laboratory work, each semester. *Semester credit, three units.* DR. HONEYWELL.\*

**41-42. The Teaching of Chemistry.** One hour lecture, each semester. *Semester credit, one unit.* DR. LLOYD.

**52. History of Chemistry.** A text book and discussion course, with systematic readings and written reports in history, biography, and original literature in the field of chemistry. Prerequisite, Courses 9, 11-12. Two hours conference, a minimum of six hours reading and study per week, second semester. *Credit, three units.* DR. LLOYD.

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\* Assistant professor in the Department of Physiology and Hygiene.

**COMPARATIVE RELIGION**

(See Biblical Literature and Comparative Religion)

**ECONOMICS**

(See Social Science)

**EDUCATION**

PROFESSOR ROGERS

ASSOCIATE PROFESSOR McCARTY

ASSISTANT PROFESSOR McHALE

INSTRUCTOR JOSLIN

ASSISTANT NORRIS

The courses in the department of education are planned to meet the needs of four classes of students. Those who desire an understanding of the significance of education and a knowledge of educational conditions in the United States with a view to fulfilling their obligations as citizens in improving the school situation in the community in which they live are recommended to take Course 1. Courses 7-8 and Course 3 will also be valuable for this group. For those who wish a general background of educational knowledge and training either for social work or for the education of children in the home Courses 21 and 25-26 are suggested.

Those students who are looking forward to teaching either in the secondary school or in the kindergarten and primary grades must make a detailed study of education, embracing the principles of education, educational psychology, methods of teaching, school administration, and the history of education. If preparing to teach in the public schools such students will be able to meet the requirements of the boards of education of most of the states for college graduate certificates. Since the requirements of the various states are not uniform, it is recommended that students consult the education department before planning their programs.

Students preparing to teach in the secondary school are advised to take the following courses in the prescribed order: 1, 2, 3 or 7-8, 5-6. Course 1 is suggested to be taken in the sophomore year, Courses 2, 3 or 7-8 in the junior year, Courses 5-6 in the senior year.

Students preparing for kindergarten or primary teaching are advised to major in education, and take the following courses in approximately the prescribed order: 7-8, or 1, 25-26, 21 or 2, 3, and 27-28. Education 10, Physiology and Hygiene 3, and Social Science 23 or 24 are also recommended.

The third group of students for whom the department is making provision are future research workers in the field of educational science. Such students must have shown superior ability in the field of psychology. In addition to the general courses in education, they are advised to take a more extensive psychological training. The course provided for this purpose in the department of education is 10.

Students preparing for positions as recreation leaders are advised to take the following courses: Education 3, 7-8 or 1, 21, 25-26, Physiology and Hygiene 3, 23-24. Courses in Social Science are also recommended.

**1 and 1R. Introduction to Education.** A general survey of the American public school system, emphasizing the organization and administration of schools. The course is valuable for those who are not planning to teach, but who desire a knowledge of educational institutions in the United States. Not open to Freshmen. Two hours, a semester. *Credit, two units.* MISS McHALE.

(This course is repeated in the second semester.)

**2. Educational Psychology.** A study of the applications of psychology to educational practice, with special bearing upon the secondary school. Emphasis is laid upon the psychology of learning. Prerequisite, Psychology I or Course 11. Three hours lecture, second semester. *Credit, three units.* DR. ROGERS.

**3. Principles of Education.** A study of the aims and values in education and general principles of method, content, and administration of education in a democracy. Open to Juniors and Seniors. Three hours, first semester. *Credit, three units.* MISS McHALE.

**5-6. Secondary Education.** A detailed study of the public secondary school, or high school. The course will take up the specific aims, methods, courses of study, and some of the administrative problems of the high school. Time will be devoted to practical work including the writing of lesson plans and observation. Prerequisite, Course 2 and either 3 or 7-8. Students electing this course are advised to have three hours a week for observation, between nine o'clock in the morning and three in the afternoon. Two hours lecture, two and a half hours observation and conference (arranged to suit the student's schedule), each semester. *Semester credit, three units.* DR. ROGERS and MISS McHALE.

**7-8. History of Education.** A survey will be made of educational theories and practices from earliest historic times to the present, with the emphasis constantly upon their interpretative value for present-day educational problems. Not open to Freshmen. Two hours, each semester. *Semester credit, two units.* MISS McCARTY.

**10. Mental Tests.** A study of the standard methods of measuring mental abilities by tests and scales. An introductory course for those who desire to do technical work in this field of psychology. It includes the systematic treatment of the main types of instruments at present in use for measuring the results of instruction in schools. Prerequisite, or required parallel, Course 2 or 21, Psychology I. Students electing this course must have one free morning each week for the experimental work. An additional lecture hour can be arranged for those who wish more advanced training in statistical methods applied to education. Two hours lecture, two and a half hours experimental work, second semester. *Credit, three units.* DR. ROGERS.

**11. How to Study.** This course presents the fundamental facts and principles concerning the best methods of study as established by psychology. Two hours, first semester. *Credit, two units.* DR. ROGERS.

**21. Child Psychology.** The nature and development of the mind during childhood, with emphasis on the pre-adolescent period. The course will include experimental work and also the application of facts ascertained to educational practice. Prerequisite, or required parallel, Psychology I or Course 11. Three hours, first semester. *Credit, three units.* MISS McCARTY.

**25-26. Expressive Materials of Early Elementary Education.** A study of the several modes of expression and appreciation—literature, industrial and fine arts, music, and physical activity—adapted to the Kindergarten and

lower primary grades. The historical background, criteria of selection, purposes and methods of presentation will be considered in each case. Practical work includes the use of industrial and fine arts, materials, games, observations, and supervised practice in story telling and games. (By arrangement with the instructor, the course may be elected as a three hour course. Open to Juniors and Seniors. Three hours lecture, four hours practical work, each semester. *Semester credit, four units.* MISS McCARTY, MISS JOSLIN, MISS JONES.\*

**27-28. Curriculum and Formal Subjects of Early Elementary Education.** A detailed study of the curriculum and administration of the Kindergarten and lower primary grades, including subject matter, organization, presentation of "tool subjects" (language and mathematics). Practical work includes lesson plans, observation, practice teaching, and advanced work in manual acts. Prerequisites, or required parallels, Courses 3, 7-8 or 1, 21, 25-26, and Physiology and Hygiene 3. Students electing this course must have at least four free afternoons (exclusive of education courses) each week during one semester for practice teaching. Three hours lecture, three hours practical work, each semester; five weeks consecutive practice teaching one semester. *Semester credit, five units.* MISS McCARTY and MISS JOSLIN.

### ENGLISH

PROFESSORS: HOPKINS

KUHL

ASSOCIATE PROFESSORS: BAKER

WINSLOW

ASSISTANT PROFESSORS: BEATTY

MILLER

NITCHIE

INSTRUCTORS: HAARDT

KRUG

SMITH

The purpose of the work in the English department is to acquaint students with the principles and practice of composition, to familiarize them with important currents of literary history, and to develop an appreciation of literature.

Courses required of all students are 1, 2, 53-54.

Course 59 is required of all students majoring in the English department. By permission secured from the chairman of the department, Course 10 or Course 51 may be substituted. This requirement may be met in the junior or the senior year. It is expected that all such students will take one or more primary courses in the following list: 65-66, 68, 71, 72, 81-82, 83, 84, 85, 91-92, 95-96, 104, 106, 121, 122.

At least one course in advanced composition should be taken by every student majoring in English. Not more than four semester courses in composition may be counted in the requirement of the 30 units. Without the approval of the department, no student may take more than one such course in any one year.

Of the 30 required units six may be elected in other departments from the following suggested courses: Art 1-2, 3-4; German 9-10, 11-12, 17-18; Latin 11-12, 17, 18, 19-20, 21-22; French 13-14, 15-16; Spanish 13-14.

\* Assistant in Physical Training Department.

Suggested courses for students majoring in English—(a) for information and general culture: 7, 10, 21-22, 41, 42, 65-66, 68, 71, 72, 81-82, 83, 84, 85, 87, 91-92, 95-96, 101, 102, 104, 106, 121, 122; (b) preparatory to journalism: 10, 11, 12, 13, 14, 21-22, 41, 42, 83, 84, 95-96; (c) preparatory to teaching English: 10, 11, 12, 13, 14, 21-22, 41, 51, 52, 71, 72, 75, 83, 84, 85, 87, 91-92, 95-96, 101, 102, 104, 121, 122; (d) preparatory to graduate work: 10, 51, 52, 59, 60, 65-66, 68, 71, 72, 81-82, 83, 84, 91-92, 121, 122.

It is strongly recommended that every student majoring in English shall take History 27-28 (History of England) unless she has had a satisfactory course in preparatory school. History 25, 26 are also recommended.

All students majoring in English, whether they expect to teach or not, should take advanced courses in at least one foreign language. Those preparing for graduate work should have a reading knowledge of French and German and if possible take advanced courses in Latin.

Suggested courses for students majoring in foreign languages: 51-52, 59, 60, 65-66, 71, 72, 81-82.

Suggested courses for students majoring in history and allied subjects: 10, 41, 65-66, 81-82, 83, 84, 85, 91-92, 104.

### English Composition and Public Speaking

The study of literature forms a part of the courses in English composition; and practice in composition is often a part of the work in English literature.

**1. Composition.** A study of the organization of the theme as a whole, outlining, paragraph structure, sentence structure. Weekly themes, chiefly expository. Five hundred pages of outside reading. Required of all students in the freshman year. Three hours, first semester. *Credit, three units.* Members of the department.

**2. Composition.** Continuation of Course 1, which is prerequisite. A brief study of the short story. Elementary compilation; note-taking, use of reference books, catalogues, indexes, etc. A study of diction. One short story, two long expositions, and a number of brief themes. Five hundred pages of outside reading. Required of all students in the freshman year. Three hours, second semester. *Credit, three units.* Members of the department.

**3-4. Composition.** Practice in theme writing, especially exposition. Students who have passed Courses 1, 2 but who, in the opinion of the department or on the recommendation of any other department, need further practice in theme writing, will be assigned to this course. One hour, each semester. *Semester credit, one unit.*

**7. The Short Story.** Study of masterpieces from Poe to the present day. Members of the class will write at least two stories. Open to Seniors, and to Juniors with the permission of the instructor. Two hours, first semester. *Credit, two units.* MR. BAKER.

**10. Debating.** A study of the principles and practice of Argumentation and Debate. Frequent debates on current questions of importance. Long argument. In the debates the English system of discussion from the floor will be encouraged. May be substituted by permission of the chairman of the department for Course 59 as the major requirement. Prerequisite, Courses 1, 2. Three hours a week, second semester. *Credit, three units.* DR. BEATTY.

**11. Advanced Composition.** For students who wish further practice in writing. Prerequisite, Courses 1, 2. Two hours, first semester. *Credit, two units.* DR. MILLER.

**12. Advanced Composition.** Continuation of Course 11, but may be elected independently with Courses 1, 2, as the prerequisite. Two hours, second semester. *Credit, two units.* DR. MILLER.

(The enrolment in Courses 11 and 12 will be limited to fifteen students.)

**13. Advanced Composition.** For students who have acquired some facility in writing, but who desire further practice. Prerequisite, Courses 1, 2. Two hours, first semester. *Credit, two units.* MR. BAKER.

**14. Advanced Composition.** Continuation of Course 13, but may be elected independently of 13, with Courses 1, 2 as the prerequisite. Two hours, second semester. *Credit, two units.* MR. BAKER.

(The enrolment in Courses 13 and 14 will be limited to fifteen students.)

**21-22. The Brief Speech.** The purpose of this course is to train students in collecting and organizing material, making it effective for the audience. Subjects for speeches will be drawn largely from problems of national interest, such as Americanization, Child Welfare, and Women in Industry. Less frequently there will be subjects in literary criticism. Some time will be given also to the study of the speech for special occasions, particularly for academic events, and to practice in the form. Prerequisite, Courses 1, 2. Two hours each semester. *Semester credit, two units.* DR. MILLER.

**41. The Magazine Article from Steele to Stevenson.** Emphasis on the relation of periodicals to permanent literature. Practice in the writing of magazine articles. Prerequisite, Courses 53-54. Two hours, first semester. *Credit, two units.* MR. BAKER.

**42. Journalism.** Continuation of Course 41, which is prerequisite. Study of news values and of the relation of the newspaper to the magazine. Practice in the writing of feature articles. Special emphasis on the writing of newspaper articles. Two hours, second semester. *Credit, two units.* MR. BAKER.

#### English Language and Literature

**51. Old English.** The elements of grammar. Reading of selected prose. May be substituted by permission of the chairman of the department for Course 59 as the major requirement. Open to Juniors and Seniors. Three hours, first semester. *Credit, three units.* DR. HOPKINS.

**52. Old English Literature.** Reading of portions of *Beowulf*, or of selections from prose and from poetry exclusive of *Beowulf*. Prerequisite, Course 51. Three hours, second semester. *Credit, three units.* DR. HOPKINS.

**53-54. Survey of English Literature.** A study of English literature from *Beowulf* to the present century. Required of all students in the sophomore year. Three hours, each semester. *Semester credit, three units.* All members of the department.

**59. Chaucer.** A detailed study of the General Prologue and some of the *Canterbury Tales*, and a more rapid reading of others. Prerequisite,

Courses 53-54. Required of all students majoring in the department. By permission of the chairman of the department Course 10 or Course 51 may be substituted as the major requirement. Three hours, first semester. *Credit, three units.* DR. KUHL and DR. BEATTY.

60. **Chaucer.** A careful study of *Troilus and Cressida*, as well as some of the earlier poems. Development of Chaucer as an artist. Prerequisite, except by permission of the instructor, Course 59. Three hours, second semester. *Credit, three units.* DR. KUHL.

65-66. **Medieval Literature: Arthurian Romance.** A cursory view of the civilization of the Middle Ages. Introduction to the theories of the origin of the Arthurian legend, followed by the study of selected French and English medieval romances in translation, and comparison with modern English versions of Arthurian story. Open preferably to Seniors. Two hours, each semester. *Semester credit, two units.* DR. HOPKINS.

68. **English Drama to 1600.** A study of the drama in England from its beginnings to 1600, exclusive of Shakspeare. The various types of early drama are considered mainly in their relation to the development of Elizabethan dramatic technique. Special emphasis is placed upon the work of the immediate predecessors and early contemporaries of Shakspeare. Prerequisite, Course 53. Three hours, second semester. *Credit, three units.* DR. WINSLOW.

71. **Shakspeare.** A close study of three of Shakspeare's plays, together with a study of the dramatist's literary, social, and historical background. Collateral reading of several plays by the same author. Prerequisite, Courses 53-54. Course 71 may be taken two successive years. Three hours, first semester. *Credit, three units.* DR. KUHL and MR. BAKER.

72. **Shakspeare.** A continuation of Course 71. A close study of three of Shakspeare's plays, together with a study of the dramatist's literary, social, and historical background. Course 72 may be taken two successive years. Three hours, second semester. *Credit, three units.* DR. KUHL and MR. BAKER.

75. **Milton.** The development of Milton as an artist and his relation to the thought of his time. Milton the humanist is stressed. A careful reading of some of the more important shorter poems and selections from *Paradise Lost*. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. KUHL.

81-82. **English Poetry from Burns to Shelley.** An introductory study of classicism, with emphasis on the work of Dryden and Pope. Intensive reading of representative romantic poets: Burns, Cowper, Wordsworth, Coleridge, Byron, Keats, and Shelley. Prerequisite, Courses 53-54. Three hours, each semester. *Semester credit, three units.* DR. NITCHIE.

83. **English Prose from DeFoe to Coleridge.** A study of the chief prose writers of the eighteenth century exclusive of the novelists. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. BEATTY.

84. **English Prose from Hazlitt to Stevenson.** A study of the chief prose writers of the nineteenth century exclusive of the novelists. Prerequisite, Course 83. Three hours, second semester. *Credit, three units.* DR. BEATTY.

**85. Browning.** A study of the major part of Browning's work, including the dramas and the *Ring and the Book*. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. HOPKINS.

Alternates with Course 91. Not given 1923-24.

**87. Tennyson.** The development of Tennyson as an artist and his relation to the thought of his day. Considerable time will be given to the *In Memoriam*. This course is intended to serve as an introduction to critical methods of literary study. Open to Sophomores. Three hours, first semester. *Credit, three units.* DR. WINSLOW.

**91-92 The English Novel.** The history of the novel from its beginnings in medieval romance to the nineteenth century, first semester. Study of the technique of the greater nineteenth century novelists, second semester. Prerequisite, Courses 53-54. Three hours, each semester. *Semester credit, three units.* DR. HOPKINS.

Alternates with Courses 85, 104.

**95-96. Literary Criticism.** A study of the principles of literary criticism and of the work of representative critics. Practical application of critical methods. Prerequisite, Courses 53-54. Three hours, each semester. *Semester credit, three units.* DR. NITCHE.

**101. Contemporary Drama.** A study of the principles of the drama as an art form and the discussion of a few representative plays as illustrative material. Those interested in play-writing will be given an opportunity to try the adaptation of a short story or an original one-act play. Other members of the class will be expected to make a careful study of a dramatist or of a special problem. Open only to Seniors. Two hours, first semester. *Credit, two units.* DR. MILLER.

**102. Contemporary Drama.** A study of the more important figures of the British and American drama during the great revival of the last thirty years. Further practice in play construction or in dramatic criticism. Prerequisite, Course 101. Two hours, second semester. *Credit, two units.* DR. MILLER.

**104. Contemporary English Novel.** A consideration of tendencies in form and material in the novel as practiced by Bennett, Galsworthy, Wells, and Conrad, with cursory attention to some of the minor figures. Prerequisite, Courses 53-54. Courses 91-92 are desirable as further preparation, but are not compulsory. Open to Juniors and Seniors. Three hours, second semester. *Credit, three units.* DR. HOPKINS.

Alternates with Course 92. Not given 1923-24.

**106. Contemporary Poetry.** A study of leading poets and movements in England and America, with some emphasis on relations to previous periods. A limited number of students will be permitted to substitute the writing of verse for a part of the required reading. Prerequisite, Courses 53-54. Two hours, second semester. *Credit, two units.* MR. BAKER.

**121. American Literature to 1860.** A study of American Literature from its beginnings to the Civil War. The earlier writings are considered briefly with reference to the development of a national consciousness. Chief emphasis is placed upon the writers of the first half of the nineteenth century. Prerequisite, Courses 53-54. Three hours, first semester. *Credit, three units.* DR. WINSLOW.

122. **American Literature from 1860 to the Present Time.** A study of American literature from Walt Whitman to the present day. Prerequisite, Courses 53-54. Three hours, second semester. *Credit, three units.* DR. WINSLOW.

### GERMAN

PROFESSOR FROELICHER

INSTRUCTOR FROELICHER

1. Prerequisites for students who elect German as their major subject: Courses A1-2, B1-2, or the equivalent in preparatory work.

2. Students doing major work in German must select the following courses: 3-4, 9-10, 11-12, 17-18. The remainder of the major requirement may be made by selecting courses from other departments as approved by the German department.

3. Other courses will be added from time to time to meet the needs of the students.

**A1-2. Beginners' Course.** Elementary grammar, reading, practice in speaking and writing. Three hours, each semester. *Semester credit, three units.* No credit will be given for the first semester until the second semester has been completed.

**B1-2. Intermediate Course.** Modern prose and verse, with a study of syntax and practice in writing and speaking German. Required of all students offering two years of preparatory German or taking A1-2 to meet the language requirement. Students who were admitted with three years of preparatory German may enter this course in the second semester. Three hours, each semester. *Semester credit, three units.*

3-4. **Prose Composition.** Practice in writing and speaking. Prerequisite, Courses A1-2. Two hours, each semester. *Semester credit, two units.*

9-10. **German Drama.** The drama from the beginning to the present day. Prerequisite, Courses B1-2, or four years of preparatory German. Three hours, each semester. *Semester credit, three units.*

Alternate with Courses 11-12. Not given 1923-24.

11-12. **Classical German Drama.** Study of the history and theory of the German drama in general, and of the classical German drama as developed in the eighteenth century by Lessing, Goethe, Schiller, together with the lives of these poets. Prerequisite, Courses B1-2, or four years of preparatory German. Three hours, each semester. *Semester credit, three units.*

Alternate with Courses 9-10.

17-18. **Goethe.** Faust and lyrics. Goethe's Faust, both parts, are read in connection with Goethe's Life. Open to Seniors. Prerequisite, Courses 9-10 or 11-12. Three hours, each semester. *Semester credit, three units.*

### GREEK

ASSOCIATE PROFESSOR EBELING

The courses in Greek Art, Literature, and Life (21 to 26) are designed to meet the needs of the student of modern art, literature, and life. The first two subjects clarify as they are fundamental and comparatively simple; they furnish standards by which modern achievements may be appraised. Greek Life (25-26) rich in correspondence with modern life, offers in comparatively narrow limits an instructive survey of human activities.

Those who enter upon the study of the language will come into a more vital contact with ancient Greek thought and to a better appreciation of Greek literature, and will lay a foundation for the acquisition of a large part of modern scientific terminology. To the Latin teacher some knowledge of Greek is all but indispensable.

For the major requirement in Greek the equivalent of the courses offered is required, omitting modern Greek and including only two units of Greek prose composition; besides, some knowledge of Latin is expected.

A course in modern Greek, 7-8, will be given when there is a demand for it.

**A1. Beginners' Course.** This course will prepare for the reading of Greek Fables and the New Testament, Course A2, and will enable the student to consult a Greek lexicon in the study of etymologies. Three hours, first semester. *Credit, three units.*

**A2. (a) Grammar, Fables, and Short Stories.** Two hours. **(b) New Testament.** One hour. Prerequisite, Course A1. Three hours, second semester. *Credit, three units.*

**B1. Xenophon.** Selections from the *Memorabilia*. This course will acquaint the student, at first hand, with Socrates and the Sophists, and will serve as an introduction to the study of Plato. Prerequisite, Courses A1, 2 or two years of preparatory Greek or special permission of the instructor. Three hours, first semester. *Credit, three units.*

**B2. Homer.** Selections from the *Iliad* or *Odyssey*. Greek epic poetry will be studied with the aid of Jebb's Introduction. Prerequisite, Course B1 or three years of preparatory Greek or special permission of the instructor. Three hours, second semester. *Credit, three units.*

**3-4. Prose Composition.** This course will be arranged to meet the needs of the class. Two hours, each semester. *Semester credit, two units.*

**9. Greek Tragedy.** Dialogues of Plato will be substituted when it is to the advantage of the class. Prerequisite, Course B2. Three hours, first semester. *Credit, three units.*

**10. Lyric Poets and Theocritus.** Other selections may be read to suit the needs and tastes of the class. Prerequisite, Course 9. Three hours, second semester. *Credit, three units.*

**21. Greek Archaeology and Art.** Beginning with a general study of art in Prehellenic Greece, this course will be devoted mainly to architecture. One hour, first semester. *Credit, one unit.*

**22. Greek Archaeology and Art.** Sculpture. One hour, second semester. *Credit, one unit.*

**23. Greek Literature.** Epic and lyric poetry. Standard English translations will be used. One hour, first semester. *Credit, one unit.*

**24. Greek Literature.** The Drama. Standard English translations will be used. One hour, second semester. *Credit, one unit.*

**25-26. Greek Domestic and Social Life.** Knowledge of the language will not be necessary. One hour, each semester. *Semester credit, one unit.*

(Course 26 may be taken independently of 25 with permission of the instructor.)

**HISTORY**

PROFESSORS: CURTIS

GALLAGHER

WILLIAMS

ASSOCIATE PROFESSORS: LONN

STIMSON

INSTRUCTOR WILSON

The department of history classifies its field as follows: The Grade I course is introductory and aims to train the student in scholarly methods of work. Grade II comprises courses of medium difficulty and general cultural value. Grade III represents more intensive work in a relatively restricted field, usually with emphasis on individual research of a pro-seminar character. The proper sequence of courses for any student is determined by the following factors: (1) Freshmen must take the Grade I course; (2) Sophomores wishing to pursue further work in history should elect a Grade II course; (3) special prerequisites must be carefully regarded; (4) hyphenated courses cannot be taken to advantage unless selected for both semesters.

The major requirement is a minimum of 20 units selected from the department and a maximum of 10 from related subjects. (1) The 20 history units are exclusive of the Freshman requirement. At least 10 units must be in Grade II and at least 8 units in Grade III courses. Six units of United States history are required of major students who have not had an acceptable course in this subject in the last two years of preparatory school; four units, if they have had this training. Courses 23-24 are required of all major students graduating in 1924. (2) To determine what are considered related subjects, the student should consult the department. (3) No one will be permitted to select history as a major subject who has fallen below the grade of C in the required course, except by permission of the department.

Students intending to teach history are advised to elect History 91-92, preferably in the senior year.

**Required Course**

**11-12. Medieval and Modern European History.** A survey, tracing the growth of characteristic medieval institutions and, in somewhat greater fullness, the general outline of modern history. The purpose of this course is three-fold: (1) To give the general student an intelligent understanding of the political, social, and intellectual development underlying contemporary society; (2) to furnish a background for the more advanced courses in history; (3) to train the beginner in scholarly methods of historical work. Required of all students in the freshman year. Grade I course. Three units, each semester. *Semester credit, three units.* Members of the department.

**Group A. Electives in European History**

Open, unless otherwise stated, to students who have completed the required course.

**13-14. History of France from 1789 to 1815.** An advanced course in which the French Revolution is considered during the first semester and the Napoleonic Era during the second. The period is dealt with, not only from the national standpoint, but as an epoch in the life of the world. A reading knowledge of French is desirable, though not required. Open only to Juniors and Seniors. Grade III course. Three hours, each semester. *Semester credit, three units.* DR. CURTIS.

**17-18. European History from 1815 to 1920.** A general survey of European history in the nineteenth and twentieth centuries, beginning with a study of revolutionary and reactionary impulses which followed the Congress of Vienna, and tracing the main steps in the domestic and foreign policies of the European powers. Special emphasis is placed upon the expansion of Europe into Asia and Africa and the course of international politics leading up to the Great War of 1914. The course closes with a study of the Peace Settlement of 1919. Open only to Juniors and Seniors. Grade III course. Two hours, each semester. *Semester credit, two units.* DR. GALLAGHER.

**17S-18S. European History from 1815 to 1920.** An intensive, selective study of important developments of the nineteenth and twentieth centuries, running parallel to Courses 17-18. The course is open only to students who have completed, or are pursuing Courses 17-18. Grade III course. One hour, each semester. *Semester credit, one unit.* DR. GALLAGHER.

(The enrolment in this course will be restricted to twelve students.)

**19-20. Ancient Civilization.** A study of the progress of the human race in the evolution of social and political institutions, religious systems, and moral standards in the early Mediterranean world. A special effort is made to correlate the primitive aspects of civilization with present-day institutions and standards and to analyze those striking characteristics that differentiate eastern from western civilization. Grade II course. Three hours, each semester. *Semester credit, three units.* MISS WILSON.

Alternate with Courses 21-22.

**21-22. Greek and Roman History.** A study of the political and cultural development of the Greek and Roman peoples from the sixth century B. C. with emphasis on the development of democratic institutions, attempts at unity among the Greeks, the spread of Hellenistic civilization, the organization of the Roman Republic and Empire, the acceptance of Christianity, and the coming of the northern peoples. Grades II course. Three hours, each semester. *Semester credit, three units.* MISS WILSON.

Alternate with Courses 19-20. Not given 1923-1924.

**23-24. Modern European History.** A general survey, extending from 1500 to the present time. Required of all students graduating in 1924 who have chosen History as their major subject. Grade II course. Three hours, each semester. *Semester credit, three units.* DR. CURTIS.

Not given after 1923-24.

**25. Medieval Civilization of Western Europe.** This course includes the study of the intellectual, aesthetic, and economic development of western Europe from the twelfth to the fourteenth centuries. Grade II course. Three hours, first semester. *Credit, three units.* DR. GALLAGHER.

**26. Renaissance Civilization.** In this course the Renaissance is interpreted as the period of transition from medieval to modern Europe. Emphasis is placed upon the development of economic, political, social, and aesthetic ideals in Italy from the fourteenth to the sixteenth centuries. Grade II course. Three hours, second semester. *Credit, three units.* DR. GALLAGHER.

**27-28. The History of England.** The course emphasizes the growth of national institutions and the part played by England in the larger life of the world. It is of interest to students of English literature. Grade II course. Three hours, each semester. *Semester credit, three units.* MISS WILSON.

**Group B. Electives in American History**

Open, unless otherwise stated, to students who have completed the required course.

**53-54. General History of the United States.** The course extends from the Age of Discovery to the present, but the main stress will be placed upon the period from 1783 to 1877. Grade II course. Three hours, each semester. *Semester credit, three units.* DR. WILLIAMS.

**55. History of the United States from 1877 to 1901.** An intensive course which aims to aid the student to secure an intelligent attitude towards the problems found in the recent history of the nation. Open only to Juniors and Seniors. Prerequisite, a good preparatory course in United States history, or Courses 53-54 or its equivalent. Grade III course. Two hours, first semester. *Credit, two units.* DR. WILLIAMS.

Alternates with Course 59. Not given 1923-24.

**56. History of the United States from 1901 to the Present.** This course is of the same general character as Course 55. Prerequisite, same as for Course 55. Grade III course. Two hours, second semester. *Credit, two units.* DR. WILLIAMS.

Alternates with Course 60. Not given 1923-24.

**57. The Civil War.** Each student will be expected to study under direct supervision some topic connected with the Civil War, to use exhaustively the available sources, and to present the results of her investigations in a carefully prepared paper. Open only to Seniors. Prerequisite, Courses 53-54 or a satisfactory preparatory course in American history. Grade III course. Two hours, first semester. *Credit, two units.* DR. LONN.

(The enrolment in this course will be restricted to ten, preference being given to students who have chosen history as a major subject.)

**58. The Reconstruction Period.** This course is of the same general character as Course 57, but the topics studied will lie within the Reconstruction period. Open only to Seniors. Prerequisite, Course 57. Grade III course. Two hours, second semester. *Credit, two units.* DR. LONN.

(The enrolment will be restricted, as in Course 57.)

**59-60. The History of the West.** A study of the westward expansion of the people of the United States, the development of the West, and the influence of Western characteristics upon the nation as a whole. Open to Juniors and Seniors only. Prerequisite, the same as for Course 55. Grade III course. Two hours, each semester. *Semester credit, two units.* DR. WILLIAMS.

Alternate with Courses 55, 56.

**61. Spain in Europe and America.** This is a general course and includes a survey of Hispanic history in the Old World and the New down to the

conclusion of the colonial wars for independence. A knowledge of Spanish is desirable, but not required. Grade II course. Three hours, first semester. *Credit, three units.* DR. WILLIAMS.

(Credit for this course will be deferred until Course 62 has been satisfactorily completed.)

**62. Hispanic America Since the Establishment of Independence.** This course, while giving a general view of all of the Latin American States, lays special emphasis upon the development of Argentina, Brazil, Chile, Uruguay, and Mexico. Prerequisite, Course 61. Grade II course. Three hours, second semester. *Credit, three units.* DR. WILLIAMS.

**82. History of the Woman Movement in the United States.** Primarily a lecture course, supplemented by outside reading, particularly biography. After a brief consideration of the reasons for woman's inferior status in general, study will be made of the struggle for equal educational opportunities for American women, for equal political, legal, industrial, and professional rights, and related topics. Frequent comparisons will be made with conditions and developments in other countries. Grade II course. Two hours, second semester. *Credit, two units.* DR. WILLIAMS.

#### Group C. Electives in Special Topics

Open, unless otherwise stated, to students who have completed the required course.

**41. The Development of the Scientific Point of View.** A study in intellectual history that attempts to trace the changing attitude towards science from ancient times to the present. This course presupposes a general knowledge of European history. Grade II course. Open to Seniors and to Juniors by special permission. Three hours, first semester. *Credit, three units.* DR. STIMSON.

**91-92. The Teaching of History and Civics.** Lectures and discussion on such problems as the aims of history teaching, the apparatus of history teaching, courses of study, text-books, class-room methods. Familiarity with the historical and pedagogical magazines will be acquired. Since civics is usually combined with history in the high school, a portion of the second semester will be devoted to discussion of the principles which should govern the teaching of that subject. Grade III course. One hour, each semester. *Semester credit, one unit.* DR. LONN.

**93-94. Contemporary History.** A study of current events and their relation to historical movements. Grade II course. Three hours, each semester. *Semester credit, three units.* DR. LONN.

(Seniors will be given the preference if the enrolment in this course exceeds twenty-five.)

**95. Economic History.** A study of the economic institutions of England and, in part, of continental Europe, including medieval village and town economy, manufacture and the guilds, commerce and the development of a medium of exchange, international trade and mercantilism; then the industrial revolution and the economic, social, and political changes resulting therefrom, including the rise of capitalism. Prerequisite, Social Science 1-2. Three hours, first semester. *Credit, three units.*

**96. Economic History.** A study of the main economic forces and institutions in the history of the United States, including early colonial economy; the development of transportation; the rise of the merchant-capitalist; banking, monetary and financial problems; agricultural vs. industrial forces and interests; the development of the factory system; the effects of slavery on the industrial development of the South; the rise of trade unions; immigration and the gradual filling up of the frontier; economic crises and depressions; large scale production and the rise of the trusts; and the movement toward scientific management. Prerequisite, Social Science 1-2. Three hours, second semester. *Credit, three units.*

## HYGIENE

(See Physiology and Hygiene)

## LATIN

ASSOCIATE PROFESSOR EBELING

ASSISTANT PROFESSOR BRAUNLICH \*

The aims of the department of Latin are: to teach the students to read and understand classical Latin without translating it, or with a minimum amount of translation; to guide them to an appreciation of some of the great works of Latin literature; to further their command of English by means of exercises in translation from the Latin; to impart a knowledge—exact rather than extensive—of the relation of Latin to other languages, especially English and the Romance tongues; to show that “Latin is the broad highway from the past to the present”; to teach the students to observe the resemblances and differences which exist between the ancient Romans and ourselves and to help them discover some of the reasons for these resemblances and differences.

Courses required for major students in Latin are: 5-6; 9; 10; 11-12; 15 and 16, or 17 and 18; 19-20. Greek is strongly recommended as an auxiliary study. Any student intending to pursue graduate work in Latin will find Greek a necessity.

Courses 31 to 42 are adapted to the needs of students who have no knowledge of Latin, as well as of those who have.

Courses in Martial's epigrams and in Roman comedy, 12A, 13, are given when a sufficient number of students request them.

**A1-2. Beginners' Course.** The course is designed to give thorough instruction in grammar and syntax and facility in reading Cæsar and Nepos. Three hours, each semester. *Semester credit, three units.* No credit will be given for the first semester until the second semester has been completed. DR. EBELING.

**B1-2. Intermediate Course.** Selections from Latin prose-writers and from the Aeneid. Required of all students offering two years of preparatory Latin, or taking Latin A1-2, to meet the language requirement for the degree. Students who have completed three units of preparatory Latin will enter this course for the second semester. Three hours, each semester. *Semester credit, three units.* DR. EBELING.

**5-6. Advanced Prose Composition.** Varied each year according to the needs of the class. One hour, each semester. *Semester credit, one unit.*

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\* Chairman of the Department.

9. **Cicero.** De Senectute. Selections from De Amicitia. Prerequisite, Course B2 or four years of preparatory Latin. Three hours, first semester. *Credit, three units.*

10. **Horace.** Odes and epodes. Prerequisite, Course 9. Three hours, second semester. *Credit, three units.*

11-12. **Latin Literature.** A study of the important authors from the earliest period to the end of the Western Empire. Selected works will be read. Prerequisite, Courses 9, 10. Three hours, each semester. *Semester credit, three units.*

15. **Tacitus.** The Histories. Special studies. Tacitus as historian. Prerequisite, Course 12. Two hours, first semester. *Credit, two units.*

16. **Pliny Minor.** Roman life as portrayed by Pliny. Prerequisite, Course 15. Two hours, second semester. *Credit, two units.*

17. **Roman Satire.** The origin and development of Roman Satire. Selections from Horace. Prerequisite, Course 12. Two hours, first semester. *Credit, two units.* DR. EBELING.

18. **Roman Satire.** Continuation of Course 17, which is prerequisite. Juvenal. Two hours, second semester. *Credit, two units.* DR. EBELING.

19-20. **Roman Elegy.** First semester, selections from Catullus and Tibullus. Second semester, selections from Propertius and Ovid. Subjects for special study: history of the Roman elegy; the elegiac distich; the Alexandrian school of poetry. Prerequisite, Course 12. Two hours, each semester. *Semester credit, two units.*

21-22. **Advanced Course in Virgil.** Eclogues, Georgics, Aeneid VII-XII. Open to Juniors and Seniors. Two hours, each semester. *Semester credit, two units.*

31. **Roman Private Life.** A study of the daily life of the Romans of the first century B. C. Discussion; reports; lectures illustrated with lantern slides and photographs. A knowledge of Latin is not required. Open only to Freshmen and Sophomores. Two hours, first semester. *Credit, two units.*

Alternates with Course 41. Not given 1923-24.

34. **Philosophy at Rome.** An elementary study of ancient schools of philosophy, especially the Stoic and the Epicurean, and of their influence upon Roman life. No knowledge of Latin or of philosophy is required. Open only to Freshmen and Sophomores. Two hours, second semester. *Credit, two units.*

Alternates with Course 42. Not given 1923-24.

✓ 41. **Latin Literature in Translation.** A study of the important authors from the earliest period to the end of the Western Empire. Selected works will be read in translation. A knowledge of Latin is not required. Not open to Freshmen. Two hours, first semester. *Credit, two units.*

Alternates with Course 31.

42. **Latin Literature in Translation.** Continuation of Course 41, but may be elected independently. Not open to Freshmen. Two hours, second semester. *Credit, two units.*

Alternates with Course 34.

**MATHEMATICS**

PROFESSORS: BACON

LEWIS

This department undertakes to prepare its major students to do graduate work in mathematics, to become teachers of mathematics in the secondary schools, or to enter those pursuits for which mathematical training is essential.

An effort is made to train the non-mathematical student in clear, logical, and accurate thinking and to give her some appreciation of the value of mathematics and its importance to the civilized world.

The department also cooperates with the departments of sciences, philosophy, psychology, and economics by furnishing the mathematical equipment needed for work in those fields.

For students whose major work is mathematics the following courses are recommended:

1. Mathematics 3, or 5 if the equivalent of 3 was accepted for entrance.

2. Mathematics 8, 13, 14, 15-16, 17-18, 19, and 23.

3. The work to complete the 30 units for the major requirement may be chosen from the remaining mathematical courses, Social Science 21, History 41, or from advanced courses in science or philosophy.

Students with scientific interests and those planning to major in Social Science are advised to elect Courses 3 and 8 in the freshman year.

Two additional courses, Modern Higher Algebra and Differential Equations, 20, 22, are given when occasion demands.

2. **Solid Geometry.** Properties of straight lines and planes; measurement of the geometric solids; geometry of the sphere. Three hours, second semester. *Credit, three units.* DR. BACON.

3. **Plane Trigonometry.** Definitions and relations of the trigonometric functions; logarithms; solution of triangles; introduction to graphic analysis. Three hours, first semester. *Credit, three units.* DR. BACON and DR. LEWIS.

5. **College Algebra.** Permutations and combinations; binomial theorem; functions and limits, undetermined coefficients; theory of logarithms; determinants, and elements of the theory of equations; introduction to graphic analysis. Prerequisite, plane trigonometry. Three hours, first semester. *Credit, three units.* DR. BACON.

8. **Plane Analytic Geometry.** The analytic treatment of loci; elementary geometry of the conic sections; introduction to determinants. Prerequisite, Course 3 or 5. Three hours, second semester. *Credit, three units.* DR. BACON and DR. LEWIS.

13. **Differential and Integral Calculus.** Derivation of formulæ for differentiation and integration; applications to problems concerning maxima and minima and curve-tracing. Prerequisite, Course 8. Three hours, first semester. *Credit, three units.* DR. LEWIS.

14. **Differential and Integral Calculus.** Continuation of Course 13, which is prerequisite. Definite integrals applied to the calculation of areas and volumes and to mechanics. Three hours, second semester. *Credit, three units.* DR. LEWIS.

15-16. **Advanced Analytic Geometry.** The general equation of the second degree; the introduction of homogeneous co-ordinates; elements of higher plane curves and solid analytics. Prerequisite, Courses 13, 14. Two hours, each semester. *Semester credit, two units.* DR. BACON.

17-18. **Advanced Calculus.** Additional topics involving definite integrals; infinite series; theory of probability and least squares. Prerequisite, courses 13, 14. Two hours, each semester. *Semester credit, two units.* DR. LEWIS.

19. **Pure Projective Geometry.** Prerequisite, Courses 13, 14. Three hours, first semester. *Credit, three units.* DR. BACON.

23. **History of Mathematics.** Prerequisite, Courses 13, 14. One hour, first semester. *Credit, one unit.* DR. LEWIS.

24. **The Teaching of Mathematics.** One hour, second semester. *Credit, one unit.* DR. BACON.

32. **Astronomy.** A brief course in descriptive astronomy designed for students of language and literature; telescopic observation. Not open to Freshmen except by special permission of the instructor. No prerequisite. Three hours, second semester. *Credit, three units.* DR. LEWIS.

33-34. **Astronomy.** General astronomy from the mathematical and physical standpoint; theories of cosmogony; supplementary reading in the history of astronomy. Telescopic observation. Open to Juniors and Seniors. Prerequisite, Course 13 and Physics 1-2, or the equivalents. Three hours, each semester. *Semester credit, three units.* DR. LEWIS.

Given alternate years. Not given in 1924-25.

## PHILOSOPHY

PROFESSOR BUSSEY

ASSISTANT PROFESSOR HAWES

The department of philosophy aims (a) to encourage the student to develop a philosophical attitude, (b) to introduce her to a consideration of the principal philosophical problems. The required course seeks to encourage independent thinking, and to acquaint the student with the nature of philosophy and with the meaning of the most important philosophical concepts. The elective courses are designed to aid the student in developing her own thinking and to give her a general knowledge of the principal philosophical systems to serve as a basis for further study.

Students are strongly advised to take the required course in the junior year. The course, however, may be taken in the sophomore year parallel with the required course in psychology by those intending to do major work in the department.

The department desires to make its major requirement as flexible as possible. Allied courses in other departments are recognized in fulfillment of the requirement.

1 and 2. **Introduction to Philosophy.** A general course dealing with the problems and terminology of philosophy. Required of all students. Prerequisite, Psychology 1, or by special permission may parallel Psychology 1. Three hours, a semester. *Credit, three units.* DR. BUSSEY and DR. HAWES.

(This course is repeated the second semester.)

3. **Ancient and Medieval Philosophy.** A brief study of the development of Greek philosophy and of its influence upon medieval thought. The greater part of the time is given to a text study of Plato's Dialogues. Prerequisite, Course 1. Three hours, first semester. *Credit, three units.* DR. BUSSEY.

4. **Modern Philosophy.** An historical survey of the main philosophical systems from Descartes through Spencer. Special attention is given to

Kant's *Critique of Pure Reason* and to its relation to preceding and succeeding tendencies in philosophy. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. BUSSEY.

5. **Genetic Ethics.** A study of the evolution of moral ideals and practices. Prerequisite, one course in philosophy. Three hours, first semester. *Credit, three units.* DR. HAWES.

6. **Ethics.** A study of ethical principles, with a consideration of the ethical aspects of some of the most important present-day problems. Prerequisite, one course in philosophy. Three hours, second semester. *Credit, three units.* DR. HAWES.

7. **Contemporary Philosophy.** A study of some of the fundamental problems in contemporary thought. Prerequisite, Course 1. Three hours, first semester. *Credit, three units.* DR. BUSSEY and DR. HAWES.

8. **Philosophy of Religion.** A study of the fundamental conceptions and problems of religion, and of its relation to science, morality, and metaphysics. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. BUSSEY and DR. HAWES.

11. **Philosophies of Life.** An introductory course intended to aid the student in attaining greater self-dependence in dealing with vital ethical problems, and to assist her in constructing a practical philosophy of life. Open to Sophomores and to others by special permission. Three hours, first semester. *Credit, three units.* DR. HAWES.

#### PHYSICAL TRAINING\*

DR. WELSH  
DR. VAN DUYN  
MISS VON BORRIES  
MISS PLUMBE  
MISS JONES  
MISS WISNER  
MISS CAMP

The Swedish system is used in the general class work. The gymnasiums have been built with careful regard to every requirement of that system, and are equipped with appliances that experience has proven useful in either general training or in the treatment of particular physical defects. Three gymnasiums are available for the use of the department, also tennis courts, hockey field, basket ball court, and the public golf course in Clifton Park.

An excellent swimming pool makes possible the requirement that every student of sophomore rank, or above, shall take swimming lessons until the college test has been passed, unless excused for physical reasons.

Each student is subjected, upon entrance, to a medical and physical examination and the facts thus ascertained and the measurements taken are carefully recorded and preserved. Assignments to required work in the gymnasium are made in accordance with the results of these examinations.

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\* This department coordinates with that of Physiology and Hygiene.

Assignments are made and gymnasium credits given for the following: 1. General class work. 2. Advanced class gymnastics. 3. Corrective and remedial gymnastics. 4. Swimming. 5. Dancing. 6. Hockey. 7. Basketball. 8. Walking. 9. Golf. 10. Baseball.

Two hundred hours of gymnasium and athletics are required of each candidate for the degree; this work is arranged on a basis of three hours weekly exercise, through the four years course.

Inter-class and other intra-mural competitive athletics are arranged for by the Athletic Association under the supervision of the Physical Training Department. No student is allowed to play on a team without a special examination by the medical supervisors.

### PHYSICS

PROFESSOR TAYLOR

INSTRUCTORS: ADAMS

BARTON

ASSISTANTS: MARTIN

MASLIN

WALKER

WATKINS

The required course in physics seeks to develop methods of reasoning and conceptions of nature which are essential in every liberal education. The elective courses are a continuation of this liberal training and at the same time are designed as parts of a major course in physics or as related courses for major work in other departments.

There are two types of major courses offered in the physics department. First, a course in theoretical physics which is designed for students wishing to take graduate degrees in physics or mathematics, or who wish to pursue the subject professionally as teachers, workers in research laboratories, or in technical occupations of various kinds. The second type is a course in applied physics and considers the subject from a physical, rather than a mathematical standpoint. It is therefore less mathematical than the former, and is designed as the basis of a cultural education with science as its predominating thought. Students desiring to obtain such a scientific training, should consult the head of the department in their freshman year or as early in their course as possible in order to utilize their time to the best advantage by a wise selection and arrangement of the most desirable courses.

Courses dealing with Thermodynamics, Sound, Photography, and Radio transmission will be given if called for.

**1-2. Elementary Physics.** A freshman course for beginners, treating briefly the elements of mechanics, heat, sound, light, and electricity. A text-book is used in connection with demonstrated lectures, class discussions, simple problems, etc. Required of all students who have satisfactorily completed a preparatory course in chemistry or, as alternate courses with Chemistry 1-2, of students who have not completed a satisfactory preparatory course in either physics or chemistry. Three hours lecture, three hours laboratory work, each semester. *Semester credit, three units.*

**3-4. General Physics.** This course considers the subject from an experimental or physical standpoint without the use of mathematics beyond trigonometry. Lectures, problems, demonstrations, and class discussions with the use of a text-book are the methods employed. It is intended for those pre-

paring to be teachers, medical students, and for any others who may desire, as a cultural course, a broad and general knowledge of physics, but who may not have the time or taste for an extended theoretical course. It may be taken in the sophomore year, but is not recommended for Freshman. Prerequisite, Courses 1-2 or the equivalent and Mathematics 3. Three lectures, three hours laboratory work, each semester. *Semester credit, three units.*

**9. Mechanics.** An advanced course in the mechanics of solids, liquids, and gases applied to problems of practical experience. Prerequisite, Courses 1-2 or equivalent and Mathematics 3 and 8. A working knowledge of Calculus is very desirable. Three hours lecture, four hours laboratory work, first or second semester. *Credit, four units.*

Alternates with Course 15.

**11 or 12. Heat.** The theory of heat, calorimetry, heat transmission, problems and experiments. Prerequisite, same as Course 9. Two hours lecture, four hours laboratory work, first or second semester. *Credit, three units.*

**14. Light.** The theory of light, spectrum analysis, interference, diffraction, aberration, and photometric theory. Prerequisite, same as Course 9. Three hours lecture, four hours laboratory work, second semester. *Credit, four units.*

Alternates with Course 16.

**15-16. Electricity.** An advanced course in electrostatics, magnetism, and electrodynamics including direct-current appliances, alternating-current theory, and radio transmission. Prerequisite, same as Course 9. Three hours lecture, four hours laboratory work, each semester. *Semester credit, four units.*

Alternate with Courses 9 and 14. Not given in 1923-24.

**17-18. Atomic Phenomena.** The purpose of this course is to become familiar with the methods and results of recent important investigations regarding the constitution of matter and electronic phenomena. Radioactivity and electronic measurements constitute an important part of the course. Best books on the subject are studied together with the original papers. Prerequisite, Courses 3-4 or certain other advanced courses in Physics. Three hours, each semester. *Semester credit, three units.*

## PHYSIOLOGY AND HYGIENE

PROFESSORS: WELSH  
KING

ASSISTANT PROFESSORS: VAN DUYN  
HONEYWELL

INSTRUCTOR WALTERS  
ASSISTANT WINCHESTER

The courses in this department are organized to teach college students the methods and generalizations of physiological science, and the practical applications of physiological knowledge to the maintenance of health and the promotion of human efficiency. The courses are not pre-medical. Students expecting to study medicine should consult the chairman of this department in their freshman year as to the possibility of arranging a pre-medical major.

While the courses are designed primarily for the general student because of the relation of their content to an understanding of human life, the selection of the matter presented and of the laboratory methods used takes into consideration the needs for fundamental physiological knowledge of the following classes of students: 1. Those who look forward to university work in physiology or in hygiene and public health; 2. Those preparing for definite vocations, (a) as teachers of general science or of hygiene or of home economics or of physical training (b) as laboratory assistants in bacteriological and bio-chemical laboratories.

The major requirements in the department are met by adding to selected courses in this department courses chosen from those offered in the departments of chemistry, physics, biology, psychology, mathematics, and home economics.

**1 and 2. Personal Hygiene.** A study of the structure and functions of the human body is associated with a consideration of the causes of ill health, the mechanisms by which the body protects itself, and the methods by which the individual may maintain and promote personal health. Required of all students, preferably in the sophomore year. Prerequisite, Biology 1 or a satisfactory preparatory course in biology. Three hours lecture, three hours laboratory demonstration, a semester. *Credit, three units.* DR. WELSH, DR. KING, DR. HONEYWELL, and Assistants.

(This course is repeated in the second semester.)

**3. Hygiene and Public Health.** A course in public health and sanitation. A study of the hygienic foundations of public health is followed by a study of the public methods—municipal, state, and national—of preventing disease and promoting health. Prerequisite, Course 1. Two hours lecture, two and one-half hours laboratory work, first semester. *Credit, three units.* DR. WELSH, DR. KING, and MISS WALTERS.

**6. The Hygiene of the Nervous System and Mental Hygiene.** The dissection of the nervous system of a vertebrate is associated with a study of the functions of the nervous system with special relation to hygiene. The student is then introduced to the problems of health included under the term Mental Hygiene. Prerequisite, Course 1. Two hours lecture, two and one-half hours laboratory work, second semester. *Credit, three units.* DR. WELSH and MISS WALTERS.

**7. General Physiology.** An introductory course in general physiology arranged for students who expect to major in the department. It requires an elementary knowledge of physics, chemistry, and general biology and concerns itself with the processes by which the organs of the animal body act and by which they play their parts along with other organs. The course introduces the student to the experimental methods used in physiology. Prerequisite, Course 1, Physics 1-2, Chemistry 1-2. May parallel either Physics 1-2 or Chemistry 1-2. One hour lecture, five hours laboratory work, first semester. *Credit, three units.* DR. KING and Assistant.

**10. Special Physiology.** The work of the preceding semester is followed by the physiology of the circulatory and respiratory systems and of secretion and excretion, studied by comparative and experimental methods. Prerequisite, Course 7; Chemistry 14 should precede or parallel. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* DR. KING and Assistant.

**11. General Bacteriology.** The physiological activities of bacteria and other microorganisms are studied with special reference to hygiene and to methods of sanitation. Prerequisite, Course 1, Physics 1-2, Chemistry 1-2. One hour lecture, five hours laboratory work, first semester. *Credit, three units.* DR. KING and Assistant.

**14. Advanced Bacteriology.** A study of important pathogenic organisms and their general relations to disease is followed by a consideration of the mechanism of infection and immunity. Prerequisite, Course 11. One hour lecture, five hours laboratory work, second semester. *Credit, three units.* DR. KING and Assistant.

**15 or 16. The Hygiene of Marriage and the Family.** A series of six lectures and conferences to be held not oftener than once a week during the first or second semester of the senior year for the Seniors who desire to discuss in an intimate way the problems of family and communal hygiene of special interest to women. One hour, first or second semester. No credit. DR. WELSH.

**17 or 18. The History of Physiology.** A study of the great discoveries in physiology that have been landmarks in its progress. Open to students taking advanced courses in this department. Two hours lecture, first or second semester. *Credit, two units.* DR. WELSH.

**21 or 22. Nutritional Physiology.** This course is correlated with the course in physiological chemistry. It includes a study of the gross and microscopic structure of the digestive tract and glands, of the mechanical factors of digestion, and of the physiological mechanisms of secretion and absorption. This course includes a study of nutrition by experimental methods. Prerequisites, Course 1, Physics 1-2; Chemistry 14 should precede or parallel; Chemistry 31-32 advised. One hour lecture, five hours laboratory work, first or second semester. *Credit, three units.* DR. HONEYWELL and Assistant.

**23-24. The Physiology of Exercise.** The dissection of the nervous and muscular systems of a mammal is followed by a study of the changes taking place in the body during exercise and of the adjustments involved in carrying it out efficiently. The relation of exercise to hygiene and health is considered in its historical, educational, and practical aspects. Prerequisite, Course 6. Two hours lecture, three hours laboratory and practice work, each semester. *Semester credit, three units.* DR. WELSH, DR. KING, DR. VAN DUYNE, and Staff of Physical Training Department.

## POLITICAL SCIENCE

PROFESSOR DEBEL

INSTRUCTOR MERRITT

The courses in this department are planned with a three-fold purpose: (1) to prepare for the teaching of civil government in secondary schools, (2) to lay a broad and general foundation for the study of law or for graduate study in political science, and (3) to prepare the student for active and intelligent citizenship. Major students in the department will be required to take 20 units in political science together with 10 additional units selected from the courses offered by the departments of history, social science, and political science.

## ANNOUNCEMENT OF COURSES

Courses 1 and 2 are open to all students. As a general rule, where students are able to give more than six units to political science, it will be better to begin work in the department with these courses. Course 2 may be taken before Course 1 by permission of the instructor. These courses are recommended especially for all prospective teachers of civil government or American history as well as for any student desiring to acquire a general working knowledge of the American political system.

Major students in the department will be expected generally to follow Courses 1 and 2 with 3 and 4. Courses 3 and 4 complement one another and should, if possible, be taken in the order given. These two courses are recommended especially for prospective social workers.

**1. American Government.** A study of the historical development, structure, and operation of the national government of the United States. Three hours, first semester. *Credit, three units.* DR. DEBEL and DR. MERRITT.

**2. American State Government.** The position of the states in the Union; the formation and admission of new states; state constitution; organization and functions of state and local government. This course should follow Course 1. It may be taken before Course 1 by special permission. Three hours, second semester. *Credit, three units.* DR. DEBEL and DR. MERRITT.

**3. Municipal Government.** Origin and development of American municipal government; the relation of the city to the state; municipal powers and responsibilities; the newer forms of municipal organization, such as, home rule, commission government, and the city manager plan. Not open to Freshmen. Three hours, first semester. *Credit, three units.* DR. DEBEL.

**4. Municipal Administration.** Origin and expansion of American municipal functions; relation of civil service reform to municipal administration; organization and functions of the various municipal administrative agencies; municipal finance; municipal ownership of public utilities, etc. Special attention is paid to the administrative organization of the City of Baltimore. Not open to Freshmen. It may be taken before Course 3 by special permission. Three hours, second semester. *Credit, three units.* DR. DEBEL.

**5. Party Government.** The nature and functions of political parties. The origin, growth, organization, and methods of political parties in the United States. Not open to Freshmen. Two hours, first semester. *Credit, two units.*

Alternates with Course 7. Not given 1923-24.

**6. Problems of Party Government.** A study of the problems and questions arising out of party government, such as, corrupt practices legislation, the direct primary, the initiative and referendum, the short ballot, etc. Not open to Freshmen. Two hours, second semester. *Credit, two units.*

Alternates with Course 8. Not given 1923-24.

**7. International Law.** The development and present status of international law; the laws of peace and war; the rights and duties of neutrals. Not open to Freshmen. Three hours, first semester. *Credit, three units.* DR. DEBEL.

Alternates with Course 5.

**8. American Diplomacy.** Constitutional provisions and governmental agencies relative to the conduct of foreign affairs; the President; the Senate;

the Department of State; the diplomatic service; the methods and traditional principles of the foreign policy of the United States. Some attention is given to the most recent attempts to organize the world for permanent peace. Lectures, assigned readings, class papers. Not open to Freshman. Three hours, second semester. *Credit, three units.* DR. DEBEL.

Alternate with Course 6.

**9. Comparative National Government.** A comparative study of the constitutions and actual workings of the governments of the leading nations of the world, such as, England, France, Italy, Germany, Russia, Switzerland. Prerequisite, Courses 1-2, or junior standing. Two hours, first semester. *Credit, two units.*

Alternates with Course 11. Not given 1923-24.

**10. Comparative National Government.** Course 9 continued. May be taken independently of Course 9 by permission of the instructor. Two hours, second semester. *Credit, two units.*

Alternates with Course 14. Not given 1923-24.

**11. The Nature of the State.** A study of the principles of political science; the state; sovereignty and liberty; constitutions; principles of legislative, executive, and judicial organization. Prerequisite, Courses 1, 2, or 9-10, or senior standing. Two hours, first semester. *Credit, two units.* DR. DEBEL.

Alternates with Course 9.

**14. History of Political Philosophy.** This course is designed to offer a rapid survey of the history of ancient, medieval, and modern political thought in relation to political history. It will include a study of the most important theories of such men as Plato, Aristotle, Polybius, Dante, Machiavelli, Thomas Aquinas, Grotius, Milton, Hobbes, Locke, etc. Prerequisite, Courses 1, 2, or 9, 10, or senior standing. Two hours, second semester. *Credit, two units.* DR. DEBEL.

Alternates with Course 10.

## PSYCHOLOGY

PROFESSOR BOWMAN

INSTRUCTORS: RUTHERFORD

POTTER

The department of psychology aims to give to the student the fundamentals of general and experimental psychology. The courses are designed to give the necessary foundation to those who intend to carry on graduate work in this field, or to undertake work in other fields in which a knowledge of psychology is essential. Courses recommended for major work in this department are: in the department of psychology, three courses in experimental psychology and Courses 2 and 14; in the department of philosophy, two courses in addition to the required course: one course in advanced laboratory work in biology, physiology, or physics; Mathematics 3 or 5, Biology 20; allied courses in other departments, as Education 10, Social Science 21, etc., according to the needs of the individual student.

**1 and 1R. Introduction to Psychology.** Lectures and discussions: demonstration experiments. Required of all students. Prerequisite, Biology 1, Physiology and Hygiene 1. Three hours, a semester. *Credit, three units.* DR. BOWMAN, MISS RUTHERFORD, MISS POTTER.

(This course is repeated in the second semester.)

**2. Imagination, Memory, and Thought.** Lectures, discussions, and experimental work on (a) the nature and types of mental imagery and the method of investigating them; (b) the acquisition and retention of mental material; (c) the analysis of the thought processes. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* DR. BOWMAN.

**3 and 4. Experimental Psychology.** Laboratory experiments in sensation. Prerequisite, or required parallel, Course 1. One hour lecture, five hours laboratory work, a semester. *Credit, three units.* MISS RUTHERFORD.  
(This course is repeated in the second semester.)

**5 or 6. Experimental Psychology.** Laboratory experiments in attention and perception. Prerequisite, Course 3. One hour lecture, five hours laboratory work, first or second semester. *Credit, three units.* MISS POTTER.

**7 or 8. Experimental Psychology.** Laboratory experiments in action and emotion. One hour lecture, five hours laboratory work, first or second semester. *Credit, three units.* DR. BOWMAN.

Not given same semester as Courses 5 or 6.

**11 or 12. Advanced Experimental Psychology.** Investigation of a selected problem. Open to students who have completed the experimental work in the department. Six hours laboratory and conference work, first or second semester. *Credit, three units.* DR. BOWMAN.

**14. General Psychology.** The genetic inheritance of mind; relation of psychology to the physiological, medical, biological, and social sciences; habit, instinct, illusion, hallucination, dream, and other special problems; abnormal psychology; applications of psychology to the arts, professions, and industries. Prerequisite, Course 1. Three hours, second semester. *Credit, three units.* MISS RUTHERFORD.

**15. The Psychology of Learning.** Laboratory experiments in reaction, mental and motor learning, fatigue, etc. Prerequisite, Course 1. One hour lecture, five hours laboratory work, first semester. *Credit, three units.* DR. BOWMAN.

### ROMANCE LANGUAGES

PROFESSOR BEARDSLEY

ASSOCIATE PROFESSORS: FLORES

PELLISSIER

ASSISTANT PROFESSORS: LEMMI

PHILLIPS

INSTRUCTORS: COCHENET

CROOKS

GIBB

SEIBERT

WILCOX

The spoken language is strongly emphasized in all courses in French, Spanish, and Italian offered by this department. In the elementary courses in French the students have daily drill in those sounds giving special difficulty. The advanced courses of the department are all conducted in the language studied.

Courses A 1-2 and B 1-2 are required in any one of the Romance Languages studied with a view to the removal of the language requirement of the college. Courses count-

ing thus cannot also be counted toward the 30 hours required of the student majoring in this department. Major students of Romance languages will be urged to take related courses offered by other departments, and such courses up to 10 hours may be admitted as a part of the major requirement for specially proficient students. Among such related courses are the following: History 13-14 (History of France from 1789 to 1815); History 61 (Spain in Europe and America); History 62 (Latin America since the establishment of Independence); Latin 5-6, 11-12 (Latin language and literature).

Major students of the department electing French 9-10 (elementary course in literature) will be required to take at the same time French 3-4 (intermediate composition) so that they may be able to use French for original compositions in French 9-10 and advanced courses. French 3-4 is a prerequisite to French 5-6 (advanced composition) and French 7-8 (conversation); French 9-10 is a prerequisite to French 13-14, 15-16, and 17-18. French 13-14, 15-16, and 17-18 may be taken in any order satisfactory to the student and to the department.

The courses in Spanish and Italian will be organized in general according to those in French, but will be varied to meet the needs of the individual classes.

Seniors will not be given the official recommendation of the department for teaching French, Spanish, or Italian unless they have successfully completed an advanced course in composition (if offered by the department) in the language for which they are recommended (*e. g.*, French, 5-6, etc.).

Special courses not listed below (Dante, Old French, etc.) will be offered from time to time as occasion may arise.

### French

**A1-2. Beginners' Course.** Three hours, each semester. *Semester credit, three units.* No credit will be granted for the first semester until the second semester has been completed. Members of the department.

**B1-2. Intermediate Course.** Required of all students offering two years of preparatory French, or taking French A1-2, to meet the language requirement for the degree. Students who have completed three units of preparatory French will enter this course for the second semester. Three hours, each semester. *Semester credit, three units.* Members of the department.

**B1R-2R. Intermediate Course.** A repetition of Course B1-2 beginning in the second semester.

**3-4. French Syntax and Composition.** Prerequisite, Courses B1-2 or the equivalent. Two hours, each semester. *Semester credit, two units.* Members of the department.

**5-6. Advanced French Syntax and Composition.** Prerequisite, Courses 3-4. Two hours, each semester. *Semester credit, two units.* MLL. PELLISSIER.

**7-8. Practical French.** Practical exercises in spoken French. Prerequisite, Courses 3-4. Two hours, each semester. *Semester credit, two units.* MLL. PELLISSIER.

**9-10. Contemporary French Literature.** Prerequisite, Courses B1-2 or four years of preparatory French. Three hours, each semester. *Semester credit, three units.* Members of the department.

**13-14. French Literature of the Eighteenth Century.** Prerequisite, Courses 9-10. Three hours, each semester. *Semester credit, three units.* MLL. PELLISSIER.

**15-16. French Literature of the Classical Period.** Prerequisite, Courses 9-10. Three hours, each semester. *Semester credit, three units.* MLLÉ. PELLISSIER.

**17-18. Survey of French Literature.** Prerequisite, Courses 9-10. Three hours, each semester. *Semester credit, three units.* DR. BEARDSLEY.

### Italian

MR. LEMMI

**A1-2. Beginners' Course.** Three hours, each semester. *Semester credit, three units.* No credit will be granted for the first semester until the second semester has been completed.

**B1-2. Intermediate Course.** Prerequisite, Courses A1-2, or the equivalent. Required of all students taking Italian A1-2 to meet the language requirement for the degree. Three hours, each semester. *Semester credit, three units.*

**9-10. Modern Italian Literature and Composition.** Prerequisite, Courses B1-2 or the equivalent. Three hours, each semester. *Semester credit, three units.*

### Spanish

**A1-2. Beginners' Course.** This course may not be elected in the same year with Italian A1-2. Three hours, each semester. *Semester credit, three units.* No credit will be granted for the first semester until the second semester has been completed. Members of the department.

**B1-2. Intermediate Course.** Required of all students offering two years of preparatory Spanish, or taking Spanish A1-2, to meet the language requirement for the degree. Students who have completed three units of preparatory Spanish will enter this course for the second semester. Three hours, each semester. *Semester credit, three units.* Members of the department.

**3-4. Spanish Syntax and Composition.** Prerequisite, Courses B1-2 or the equivalent. Two hours, each semester. *Semester credit, two units.* DR. FLORES.

**5-6. Advanced Spanish Composition and Commercial Spanish.** Prerequisite, Courses 3-4. Two hours, each semester. *Semester credit, two units.* DR. FLORES.

**9-10. Modern Spanish Literature.** Prerequisite, Courses B1-2 or the equivalent. Three hours, each semester. *Semester credit, three units.* MISS CROOKS.

**13-14. Spanish Literature of the Sixteenth and Seventeenth Centuries.** Prerequisite, Courses 9-10 or 11-12. Three hours, each semester. *Semester credit, three units.* DR. BEARDSLEY.

**SOCIAL SCIENCE**

PROFESSORS: CARROLL

PETERS

THOMAS

INSTRUCTOR GATES

The aim of the department is (1) to develop in college students an understanding and appreciation of some of the outstanding economic and social problems; (2) to train them to be intelligent volunteers and leaders in social movements in their own communities; (3) to prepare selected students, in so far as undergraduate work can do so, for the profession of business or of social service. Major students in the department are required to take Courses 1-2, 21, and 41. Students whose major interest is business should add to selected courses in this department material from the history, political science, and mathematics departments; those focusing on social work should add to the courses offered here subjects offered by the departments of biology, physiology and hygiene, mathematics, education, history, psychology, and political science. Special attention is called to History 95-96, which count toward the requirements of the major department.

In fulfillment of the major requirements 20 units are necessary in the major department and 10 in allied subjects, including those mentioned above.

It is suggested that Freshmen planning to enter the department elect Mathematics 3 and 8.

**1-2. Elementary Economics.** This course is designed to give the student an understanding of modern industrial society with a thorough working knowledge of the fundamental principles of economic theory, particularly in relation to the problems of the production, distribution, and consumption of goods. Not open to Freshmen. Three hours, each semester. *Semester credit, three units.* DR. THOMAS and MR. GATES.

**3-4. Public and Corporate Finance.** An examination of financial institutions including the medium of exchange and the functions of credit. The national budget is studied, and special emphasis is given to public policy in reference to the income and expenses of the United States and foreign countries. Commercial banking and the Federal Reserve system are examined. The promotion, expansion, and reorganization of corporations are studied. Investment policies, analysis of financial statements, and the nature of business enterprises will be treated. Frequent exercises in the solution of actual business problems will serve to familiarize the student with both the theory and practice of public and corporate financial operations. Prerequisite, Courses 1-2. Three hours, each semester. *Semester credit, three units.* MR. GATES.

**5-6. Business Organization.** A treatment of manufacturing and commercial organization from the standpoint of industrial efficiency. Principles of accounting, production, marketing, and personnel will be discussed with stress upon opportunities for women in industrial life. Special attention will also be given to merchandising policies and retail organization to acquaint the student with the buying and selling of goods. A part of the work of this course will be field trips on which attendance is required. Prerequisite, Courses 1-2. Three hours, each semester. *Semester credit, three units.* MR. GATES.

**7. Labor Conditions and Problems.** A general survey—analytical, causal, and historical—of the main forces and factors which condition modern labor problems. Prerequisite, Courses 1-2. Three hours, first semester. *Credit, three units.* DR. CARROLL.

Alternates with Course 45.

**8. Trade Unionism.** A study of the essential character and activities of American labor organizations. Emphasis is placed upon the trade union program, upon collective bargaining, and upon cooperation or conflict with employers' associations. Prerequisite, Course 7. Three hours, second semester. *Credit, three units.* DR. CARROLL.

**9. Economic Policies.** A study of the strength and weakness of comprehensive plans for economic improvement, especially the single tax, socialism, national guilds, syndicalism, voluntary cooperation, and liberalism. Prerequisite, Courses 1-2 and senior standing. Three hours, first semester. *Credit, three units.* DR. THOMAS.

**10. The Family.** A study of some of the economic problems of the family. An examination is made of the effects of the Industrial Revolution in specializing household industries and the education of young children, the influences which have made many women desire economic independence, and the various theories as to the future of the family. Prerequisite, Courses 1-2, 41 or 42, and senior standing. Three hours, second semester. *Credit, three units.* DR. THOMAS.

**21 and 22. Elementary Statistics.** This course is designed to give the student an understanding of the purpose and limitations of the statistical method, and experience in the more common measures of central tendency and in simple tabulation and graphics. Problems in the collection and interpretation of statistical material will be discussed. Three hours, a semester. *Credit, three units.* DR. CARROLL.

(This course is repeated in the second semester.)

**23. Methods in Social Work.** This course deals with the evolution of philanthropy in relation to changing social and economic conditions; and with present-day principles, methods, and resources. Visits to social agencies in Baltimore will be made. Prerequisite, junior standing and six units of social science. Students majoring in Education will be admitted on the recommendation of that department. Three hours, first semester. *Credit, three units.* DR. CARROLL.

**24. Society and the Offender.** A study of the historic and present-day methods of treatment of the juvenile and adult offender. Visits to correctional agencies. Prerequisite, Course 23. Three hours, second semester. *Credit, three units.* DR. CARROLL.

Alternates with Course 26. Not given in 1923-24.

**26. Social Legislation.** A study of the state and federal laws pertaining to woman and child welfare, labor, social insurance, dependence, and delinquency. Prerequisite, Course 7 or 23. Three hours, second semester. *Credit, three units.* DR. CARROLL.

Alternates with Course 24.

**28. Rural Sociology.** This course presents the characteristics common to American rural communities with the problems arising from the drift to the cities and the trend toward rural community organization. Prerequisite, Courses 41, 43, and junior standing. Three hours, second semester. *Credit, three units.* DR. PETERS.

Alternates with Course 48.

**41 and 42. Social Origins.** A study of man in relation to his environment; the origin of the early systems of social control; and the processes involved in the transition from primary to secondary group relations. Prerequisite, Biology 1. Three hours, a semester. *Credit, three units.* DR. PETERS.

(This course is repeated in the second semester.)

**43 and 44. Social Psychology.** The psychology of the self in terms of native traits and social environment; the uniformity in habits of thought of natural groups; and the psychology of mass movements. Prerequisite, Course 41 and Psychology 1. Three hours a semester. *Credit, three units.* DR. PETERS.

(This course is repeated in the second semester.)

**45. Immigration.** A study of immigrant peoples; heritages and attitudes; their life in American communities; and the influence of their presence on American economic, political, and social institutions. Prerequisite, Course 41. Three hours, first semester. *Credit, three units.* DR. CARROLL.

Alternates with Course 7. Not given in 1923-24.

**48. Sociology.** The social process as interpreted in the literature of social science. Prerequisite, Course 41 and senior standing. Three hours, second semester. *Credit, three units.* DR. PETERS.

Alternates with Course 28. Not given in 1923-24.

**A1-2. Field Work.** Field work is offered for those planning to engage in social work. Students may, with the consent of the instructor, arrange to do supervised field work in one of the Baltimore social agencies. Prerequisite or parallel, Course 23. If taken in the junior year, field work may be repeated for credit in the senior year. Six or nine hours of field work each semester. Semester credit, two or three units, depending on the amount of work done. DR. CARROLL.

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